

Die Natur weiß den Weg

PerNaturam®

Products 2020

Natural supplements
for the optimal care of your horse

PerNaturam – at home in nature

Welcome to PerNaturam!

PerNaturam is an owner-operated feedstuffs manufacturer with a team of staff whole-heartedly dedicated to the welfare and nutrition of dogs, cats and horses. We and our consulting team are happy to answer any queries you may have about your animal.

For over 30 years, our focus has been on developing species-appropriate nutrition for animals, while constantly expanding our knowledge of the effects of nutrients and essential vitamins and minerals.

In our consultations and product and recipe developments, we are guided by nature and the seasonal food available to horses. Decades of interacting with animals and focussing on their needs have led us to the assertions we make in our recommendations and consultations that can be quite contrary to textbook opinion. Our constant goal is to help horses find their inner balance. With this in mind, we draw on the knowledge, experience and insights we have gained from our study of biology, ecology and phytotherapy.

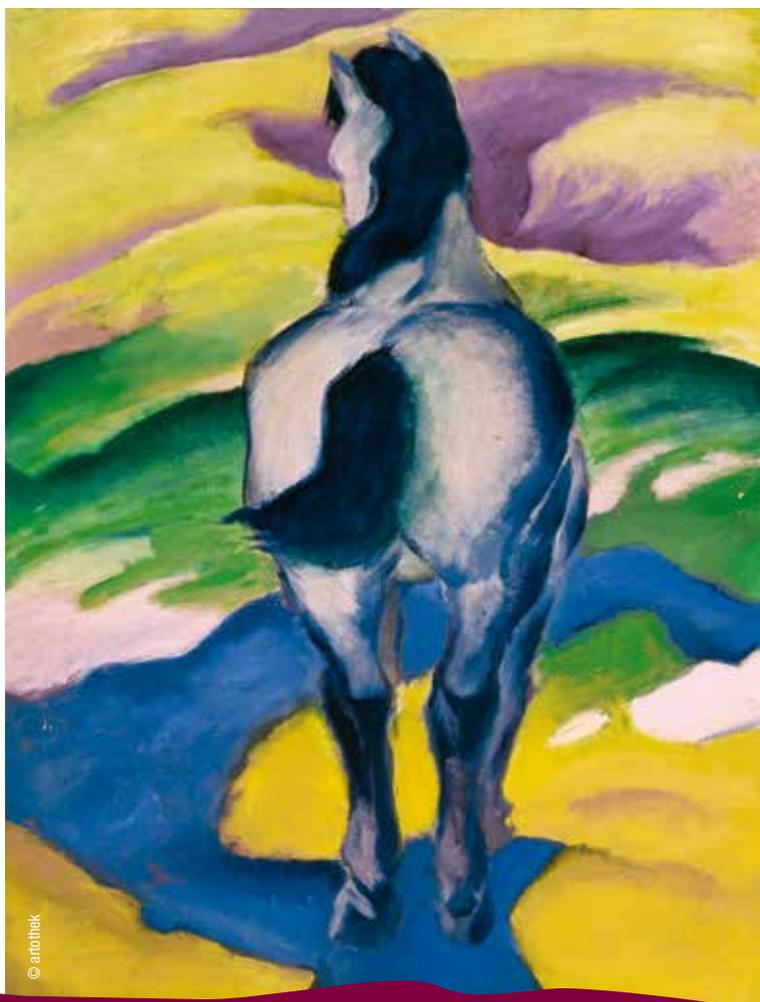
To continue deepening our knowledge and to incorporate the latest findings in nutritional science and herbal medicine into our products, we collaborate with several universities and employ experts from various medical and biological disciplines.

Traditional wisdom is just as important to us as the latest research. Never losing sight of time-honoured practices, every day, we build on our knowledge, which we gladly share with our customers.

In our new catalogue, we have taken our inspiration from the pictures of horses by the expressionist Franz Marc (1880-1916), who developed his own view of the world.

He is the most important representative of German Expressionism, and was particularly fascinated by horses. He painted his expressive horse pictures on large canvases while completely surrounded by the animals.

Allow yourself, like us, to be captivated by his portrayal of animals and his play of colours. Franz Marc teaches us that as individuals we are able to perceive things differently, but also develop our own views of the world.





Dear friends of PerNaturam

Nature is our role model

Horses are herbivores. In addition to structure-rich grasses, their biological and species-appropriate diet includes a multitude of herbs and roots, as well as leaves, buds, bark, fruits and seeds. Herds of horses that have access to large habitats, e.g. in nature reserves, graze on wild meadows. They also feed on the tall forbs in ditches and in wetlands, eating hedges and forest trees. If they can, horses use a range of 200 to 300 species for their nutritional supply. In such places, you can observe the natural interaction of animals in seasonal rhythm with their surrounding vegetation. This has made their lives possible for hundreds of thousands of years and ensured their survival.

High-energy, species-poor diet

Nowadays, our domesticated horses usually graze on species-poor cow pastures and thus largely have an unbalanced diet of grasses rich in protein and sugar. This type of feeding lacks natural herbal diversity and therefore the balanced mineral and vitamin supply a horse would normally receive from natural sources. Additionally, these horses lack many phytochemicals and, therefore, the vital nutrients with their accompanying beneficial effects.

Vitality through phytochemicals

Phytochemicals are indispensable for good health. Together with a balanced supply of nutrients, they help horses to find and maintain their inner balance. Phytochemicals include tannins and bitter substances, pungent compounds, essential oils and a great variety of plant antioxidants. They ensure stable intestinal flora, a well-functioning metabolism and stimulation of the body as a whole. For this, horses need the full range of naturally available nutrients and vital substances. Horses fed this way will stay healthy and fertile, well-balanced, efficient and live a long life. This is nature's way. This is PerNaturam's philosophy:

Nature knows the way.

We at PerNaturam look forward to accompanying you,

Biologist

Certified Ecologist · Phytotherapist

Consultation



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Mon. to Thurs. from 8 a.m. to 6 p.m.

Fri. from 8 a.m. to 5 p.m.

Sat. from 9 a.m. to 12 p.m. (CET)

We are here to help and will be happy to advise you personally and free of charge.



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Homepage: www.pernaturam.de

Here you can find further information and many useful tips.

Guides

You can order our free guides on informative and key topics online at: www.shop-pernaturam.de/pernaturam-ratgeber-pferden or download at: www.pernaturam.de/downloads.

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In order to implement our obligations under the Packaging Ordinance, we have joined the Dual System Interseroh. We ship our packages with:



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Prices

All prices include VAT, price changes and misprints excepted. With the publication of this price list, all previous prices lose their validity. Effective as of October 2019.

General Terms and Conditions

You will find the General Terms and Conditions in our online shop at www.shop-pernaturam.de/agb.

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The basis of good nutrition includes varied and wide-ranging herbal mixtures, vegetables, and algae to ensure a balanced natural diet.

10 Minerals

Organically-bound minerals and trace elements from plants are especially well received and utilised.

14 Oils & Fats

Vegetable oil blends and seeds provide a good energy supply and nourishment for skin and coat.

16 Stomach, Intestines & Digestion

The gastrointestinal tract is where the ingestion of food truly happens. Our herbal blends stimulate the appetite, promote healthy digestion and ensure a stable gut flora.

27 Endoparasites

Special herbal mixtures alter the gut flora to prevent intestinal parasites and worms from settling in the intestines.

30 Liver & Pancreas

The pancreas produces digestive enzymes and regulates the blood sugar level. Bitter herbs and specially coordinated mixtures support the pancreas and promote elimination. The liver can become overburdened as a result of misfeeding and the effect of numerous environmental toxins. Excessive demands can be recognised especially in the eyes, mucous membranes, and on the skin, coat and hooves.

34 Kidneys

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39 Immune System

A well-functioning immune system is the best aid in keeping the body fit and healthy. Supporting the immune system during times of weakened defence and in periods of recuperation is also a key task.

44 Circulation & Blood Supply

The heart works continuously as the body's engine. Numerous plant ingredients help to regulate the circulation and provide better blood flow to the capillaries.

48 Airways

Oxygen supply is essential for energy production; expectorant herbs and essential oils enable your horse to breathe freely to help ensure vitality and efficiency.

54 Skin, Coat & Hooves

The skin and coat are closely related to the intestines. The condition of the skin and coat indicates the nutritional situation, the state of the intestinal flora and the vitality of your horse.

60 Musculoskeletal System

The care of the musculoskeletal system is of particular importance for horses. The goal is to support muscles, tendons and ligaments, maintain agility and prevent damage to the joints.

64 Stress & Performance

Vitality and performance capability are the result of training and optimal nutrition. Including the right products in the training strategy leads to excellence, without doping.

68 Hormonal Balance

Hormones are the chemical messengers of the body. Some plants produce hormone-like substances; these phytohormones can help the body to address hormonal imbalances.

70 Mares & Foals

Birth is a wonderful experience. To ensure a happy future mares and foals receive all the nutrients necessary for smooth development.

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Highly nutrient-rich herbal mixtures and supplements maintain and improve the efficiency and quality of life of our old friends.

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The basis for a healthy life

Wild horses are always migrating to new feeding grounds. The food spectrum of central European horses includes 150 to 200 plant species. Horses eat leaves, fruits, buds, barks and roots. Nowadays, we are not able to offer this diversity and variety to our horses. Today's most common supply, species-poor grasslands and hay from grass-growers, is unnatural and therefore cannot be species-appropriate. This type of imbalanced nutrition can deplete the intestinal flora.

Through numerous investigations and observations of horses raised in near natural conditions, such as the "Dülmener horses" in the Merfelder Bruch nature reserve or other conservation projects in which horses are used for landscape maintenance, we know that horses not only eat grasses and herbs, but also graze on trees, hedges and dwarf shrubs. Horses have long digestive tracts; their digestion is designed to obtain energy from crude fibre. The supply of high-energy grasses, in addition to the oversupply of cereals without corresponding performance requirements, creates imbalances, changes the intestinal environment and burdens the metabolism. This one-sided and high-energy diet disturbs the balance and reduces the biodiversity of the bacteria in the intestine. Restoring such a disturbed balance requires species-rich feed mixtures with many nutrient components and plant ingredients.

The diverse intestinal flora and the variety of dietary components should be balanced – they condition each other. This also ensures that no single active nutritional or plant substance or bacteria can achieve damaging dominance. In the microbiome of the intestine, the food is broken down and the intestinal bacteria create vital enzymes, vitamins and amino acids. 70% of the immune system's function takes place in the intestine. That is why the supply of herbs is not only special nutrition for horses – it specifically serves to maintain and regenerate the necessary intestinal flora and stimulate the metabolism.



Esparsette (sainfoin)

Traditional fodder plant with special properties

Feed material for horses

No other plant is comparable to sainfoin, because it has such high nutritional value with the following desirable properties: It is rich in essential amino acids for enhancing the diet and has a high crude dietary fibre content. It is a rich source of organically-bound calcium, vitamins, beta-carotene and trace elements. This ideal protein and calcium supplement is rich in condensed tannins (for healthy digestion and creating a natural anti-worm environment in the gastrointestinal tract). Sainfoin counteracts bloating.

Composition

100% sainfoin (*Onobrychis viciifolia*) pellets.



Feeding recommendation

When used as base feed, we recommend 50 to 300 g per meal, depending on the size of horse. When fed as a complete feed (concentrate), give between 300 g and 3 kg daily, depending on the situation and size of horse or pony.

Please only feed sainfoin pre-soaked!

Analytical constituents:

Crude protein 14.7%, crude fats 4.1%, crude fibre 22.6%, crude ash 6.2%.

Minerals: Calcium 0.98%, phosphorus 0.23%, sodium 0.01%.

Size Item no.

3 kg	200003
5 kg	200004
10 kg	200005

EquiBasal®

Natural nutrients and vital substances

Feed supplement for horses

EquiBasal® is a basic supplement; it contains herbs in an organic mineral feed that guarantees the optimal care of your horse.

EquiBasal® not only ensures stable intestinal flora and an active metabolism, but also perfect skin and a shiny coat. EquiBasal® is rich in natural antioxidants, helping the body to cope better with inflammation. It is especially important for recuperation.

Composition

Apple granules, sunflower lecithin (GMO-free), rosehips, grapeseed flour, brewer's yeast, nettle, spirulina, seaweed, flower pollen, anise, caraway, fennel.

Feeding recommendation

Feed 50 to 100 g regularly, preferably daily, depending on the size and physical requirements of the horse. With good primary care, give it as a course of treatment for several weeks. The measuring cup holds 100 g.

Analytical constituents:

Crude protein 12.9%, crude fats 12%, crude fibre 16.9%, crude ash 13.8%.

Minerals: Calcium 0.72%, phosphorus 0.55%, sodium 0.72%.

Technological additives per kg: 60,000 mg silica, precipitated/E551.

Nutritional additives per kg: 1,000 mg L-methionine.

Size Item no.

1 kg	200006
3 kg	200001
6 kg	200002



Hortus Gemüse- und Früchte-Mischung (Hortus vegetable and fruit mixture)

Better secretion of saliva; natural vitamins and minerals

Feed supplement for horses

Hortus by PerNaturam is a tasty vegetable and fruit blend with a high proportion of organically-bound minerals and trace elements. 1 kg of Hortus is equivalent to 10 kg of fresh vegetables. Hortus ensures better saliva secretion, helps to calm the mucous membranes of the intestinal tract, binds excess fluid in the intestines and provides natural vitamins and minerals.

Composition

Carrot, celery, parsnip, apple granules, parsley stalks, horseradish, carob.

Feeding recommendation

Depending on the size of horse, add 50 to 100 g of pre-soaked Hortus to your horse's feed. Once pre-soaked, its volume will increase five-fold.

Analytical constituents:

Crude protein 7.4%, crude fats 2.2%, crude fibre 11.6%, crude ash 5.3%.

Minerals: Calcium 0.44%, phosphorus 0.19%, sodium 0.19%.

Size Item no.

3 kg	209002
10 kg	209003



Primary Care

Ostpreußen Kräuter (Ostpreußen herbs)

To optimise digestion

Feed supplement for horses

This mixture is indispensable for horses that are fed with grasses very rich in protein and fructan. Fresh grasses in springtime place a serious burden on the intestines. The same applies for hay from species-poor meadows, often the main source of food for horses in winter. A bloated abdomen indicates how disturbed the intestinal flora is. These horses are always prone to indigestion and often suffer from diarrhoea, colic and laminitis. Ostpreußen herbs offer the right help.

The bitter-spicy herbs promote the intestinal flora and help horses to better digest energy and protein-rich grass. They promote the secretion of digestive juices and stimulate the pancreas. This allows the intestinal flora to regenerate, thus relieving the caecum.

Composition

Caraway, meadowsweet, yarrow, buckwheat, hemp-agrimony, parsnip, couch grass, blueberry leaves, deadnettle, bedstraw, fennel, knotweed, coriander.

Feeding recommendation

Herbs should always be used as a feed supplement. Depending on the size of horse, mix 30 to 70 g (1 to 3 handfuls) of PerNaturam's Ostpreußen herbs with the regular food daily. We recommend alternating different PerNaturam feed mixtures – preferably moistened.



Size	Item no.
500 g	207013
1 kg	207007
3 kg	207008
10 kg	207020

Analytical constituents: Crude protein 9.70%, crude fats 4.3%, crude fibre 23%, crude ash 7.2%.

Minerals: Calcium 0.75%, phosphorus 0.31%, sodium 0.02%.

Lüneburger Kräuter (Lüneburg herbs)

Supports the digestive and excretory organs

Feed supplement for horses

The Lüneburg herbs mixture aims to stimulate the metabolism and to support the digestive and excretory organs, especially the kidneys. It revitalises older horses whose metabolic activity has waned. It is not only medication and environmental toxins that burden horses; imbalances in the feed, preservatives, mould, fungal toxins and commonly oxidised fats all attack the liver and kidneys. By stimulating the liver and the kidneys, we help horses to excrete these substances. This is especially important in winter when horses sweat less and the kidneys have to work harder. For further ways to activate the liver and kidneys see Elimination and Deacidification on page 37.

Composition

Birch, blackberry leaves, stinging nettle, anise, horsetail, mugwort, pansy, veronica, goldenrod, angelica, juniper berries, erica blossom.

Feeding recommendation

Herbs should always be used as a feed supplement. Depending on the size of horse, mix 30 to 70 g (1 to 3 handfuls) of PerNaturam's Lüneburg herbs into the feed daily. We recommended alternating different PerNaturam feed mixtures – preferably moistened.

Analytical constituents: Crude protein 12%, crude fats 5.6%, crude fibre 23.8%, crude ash 8.9%.

Minerals: Calcium 1.21%, phosphorus 0.27%, sodium 0.06%.

Size	Item no.
500 g	207011
1 kg	207003
3 kg	207004
10 kg	207009



Schwäbische Alb-Mischung (Swabian Alb mixture)

Herbal mixture to strengthen the bronchi and the immune system

Feed supplement for horses

The Swabian Alb mixture contains the robust plants typically found on chalk heath and juniper heath grasslands. Many southern horse breeds are used to similar soils and herbal mixtures because of their origin. This makes the Swabian Alb mixture the right species-appropriate supplement for them. The combination of herbs balances nutritional disorders of the metabolism and helps to activate the body's own immune system, especially in the bronchial region. The aroma-rich mixture has a particularly positive effect on the mucous membranes, specifically those of the respiratory tract. The Swabian Alb mixture is recommended for non-specific, dry coughs and allergic reactions to dust as well as during convalescence.

Composition

Sage, St. John's wort, hawthorn, thyme, oregano, agrimony, lady's mantle, chicory, veronica, juniper, centaury, mint, camomile, sloe blossom.

Feeding recommendation

Herbs should always be used as a feed supplement. Depending on the size of horse, mix 30 to 70 g (1 to 3 handfuls) of PerNaturam's Swabian Alb mixture into the feed daily. We recommend alternating different PerNaturam feed mixtures – preferably moistened.



Size	Item no.
500 g	207010
1 kg	207005
3 kg	207006
10 kg	207021

Analytical constituents: Crude protein 9.70%, crude fats 4.3%, crude fibre 23%, crude ash 7.2%.

Minerals: Calcium 1.23%, phosphorus 0.23%, sodium 0.02%.

Kräuter-Paket 500 oder 1000 (herbal pack 500 or 1000)

Our three trusted regional mixtures for well-rounded primary care

Ostpreußen Kräuter (Ostpreußen herbs) · Lüneburger Kräuter (Lüneburg herbs)

Schwäbische Alb-Mischung (Swabian Alb mixture)

Either as Herbal Pack 500 with 500 g of each mixture or as Herbal Pack 1000 with 1 kg each of the 3 mixtures.

Available to final customers only.

Size	Item no.
3 x 500 g	250003
3 x 1 kg	250002

Better value than purchasing items separately!



Primary Care

Klostergarten (monastery garden herbs)

For an active metabolism and good digestion

Feed supplement for horses

The Klostergarten herbal mixture brings the variety of a healthy meadow or pasture to the feeding trough! By herbal variety, we mean numerous secondary plant substances, important enzymes and many natural antioxidants, which wild horses constantly consume throughout the changing seasons. Klostergarten contains 28 aromatic and medicinal herbs to enrich their daily feed. The various herbs ensure stable intestinal flora, a healthy metabolism and regulate the acid-base balance. The stimulating effect manifests, for example, in a beautifully glossy coat.

Composition

Horsetail, anise, arnica, birch leaves, veronica, fennel, lady's mantle, rosehip, camomile, mullein, coriander, caraway, bedstraw, lime blossom, dandelion, wild marjoram, mint, nettle, marigold, yarrow, ribwort plantain, pansy, thyme, verbena, knotweed, willow-herb, hawthorn, lemon balm.

Feeding recommendation

Add approx. 50 to 70 g of Klostergarten to your horse's feed daily, preferably moistened.



Size	Item no.
500 g	207012
1 kg	207001
3 kg	207002
10 kg	207022

Analytical constituents:

Crude protein 11.7%, crude fats 7%, crude fibre 25.8%, crude ash 8.1%.

Minerals: Calcium 1.15%, phosphorus 0.27%, sodium 0.12%.

Waldweide (forest pasture)

Important dietary components from the forest

Feed supplement for horses

Leaves, barks and fruits from forests and hedges have enriched the natural diet of horses since ancient times. This has since been forgotten when it comes to feeding. Domesticated horses, which have preserved their natural instincts, graze over the fence of their enclosures and, if permitted, take advantage of the natural foliage on offer whilst out riding. Give horses what they are missing with Waldweide: Natural vitamins, organically-bound minerals and many antioxidants.

Composition

Birch leaves and bark, oak bark, ash leaves, walnut leaves, beech bark, elderberry leaves, cherry stalks, erica, rosehip with seeds, elderberries.

Feeding recommendation

Depending on the size of your horse, mix 30 to 70 g of PerNaturam's Waldweide into the feed, preferably moistened. Feed Waldweide along with the other mixtures from PerNaturam.

Analytical constituents: Crude protein 6.2%, crude fats 3.3%, crude fibre 32.2%, crude ash 5.2%.

Minerals: Calcium 1.33%, phosphorus 0.01%, sodium 0.01%.



Size	Item no.
1 kg	208044
5 kg	208017
10 kg	208031

Flora Islandica Hoch- und Fjordweide (highland and fjord pasture)

Mixture for the special needs of robust and baroque breeds

Feed supplement for horses

Icelandic horses, all Nordic races and mountain horses, such as Haflinger and Freiburger, need special herbal mixtures especially rich in organically-bound minerals and trace elements. Flora Islandica highland pasture corresponds to the nutrition supplied by the high pastures in Iceland. Flora Islandica fjord pasture contains herbs, shrubs and algae from the coastal area. Alternate both mixtures!

Feeding recommendation

For each horse, mix 40 to 50 g with the feed daily. We recommend alternating the 2 mixtures (Flora Islandica highland pasture and Flora Islandica fjord pasture) for a week each.

Flora Islandica highland pasture

Composition

Goat's beard, bedstraw, wild rye root, knotted kelp, downy birch leaves, horsetail, hemp nettle, gypsy wort, Icelandic moss, beard lichen, willowherb, avens, hawkweed, alpine lady's mantle.



Flora Islandica fjord pasture

Composition

Heather, hemp nettle, broadleaf plantain, thyme, shepherd's purse, betony, horsetail, red algae, knotted kelp, beard lichen, cinquefoils, blueberry and strawberry leaves, juniper berries.



Analytical constituents:

Crude protein 9.5%, crude fats 2.9%, crude fibre 20.9%, crude ash 10%.

Minerals: Calcium 1.18%, phosphorus 0.18%, sodium 0.48%.

Flora Islandica highland pasture

Size	Item no.
500 g	207018
1 kg	207014
3 kg	207015

Flora Islandica fjord pasture

Size	Item no.
500 g	207019
1 kg	207016
3 kg	207017

Analytical constituents:

Crude protein 9%, crude fats 2.3%, crude fibre 20.2%, crude ash 10.8%.

Minerals: Calcium 1.4%, phosphorus 0.18%, sodium 0.25%.

Hagebutten (rosehips) – whole or crushed

Rosa canina

For the supply of vital substances

Feed material for horses

Rosehips are rich in vitamins C, K, beta-carotene and antioxidants. They also make a healthy, tasty treat. As research in Denmark has shown, they also help to rebuild tendons and articular cartilage. They contain a special substance, a galactolipid (GOPO), which reduces sensitivity in the case of joint pain and arthritis and improves suppleness of movement. Regular feeding of rosehips also ensures better circulation of the capillaries, especially of the hoof corium. The best results are achieved by adding lecithin with silica and willow bark & meadowsweet from PerNaturam at the same time.



Rosehips crushed

Size	Item no.
2 kg	206025
6 kg	206030



Rosehips whole

Size	Item no.
2 kg	206004
6 kg	206029

Composition

100% rosehip, crushed or whole.

Feeding recommendation

Depending on the size of your horse, mix a heaped tablespoon to a handful of rosehips with the feed daily, or give a little occasionally as a treat.

Analytical constituents:

Crude fibre 35.9-38.1%.

Minerals and trace elements

The horse is naturally adapted to obtain its supply of minerals and trace elements from plants; these are made available to the body as organic compounds. Their uptake within the body is ensured by the stomach's intestinal bacteria, which enable the gut to break down and digest the plants. Only in exceptional cases do horses in nature eat inorganic minerals such as soil or salt. In fact, inorganic compounds are poorly absorbed, accumulate in the organs and place a strain on the metabolism.

The horse's supply of all vital minerals is secured by consuming a wide variety of different plant species and roots, barks, fruits and leaves, which are all rich in these substances. This results in a natural, balanced diet.

PerNaturam products are composed according to nature's specifications, especially the mineral-rich Orgamin®. This product was analysed by the Chamber of Agriculture (LUFA) of North Rhine Westphalia in Münster, Germany, to determine the most important minerals and trace elements. If you compare only analytical values then synthetic compound feeds appear far superior to biological ones. However these numbers say nothing about the bioavailability, i.e. the absorption, which happens in the intestines, nor about the usability, i.e. the utilisation of these elements in the body.

Plants store minerals and trace elements particularly in their roots and bark; herbs on the other hand, are rich in trace elements. Horses provided with herbs and species-rich herbal hay eat little mineral feed or hardly make use of a mineral lick.



Hortus Gemüse- und Früchte-Mischung (Hortus vegetable and fruit mixture)

Better saliva secretion; natural vitamins and minerals

Feed supplement for horses

Hortus by PerNaturam is a tasty vegetable and fruit mixture with a high proportion of organically-bound minerals and trace elements.

1 kg of Hortus is equivalent to 10 kg of fresh vegetables. Hortus ensures better saliva secretion, soothes the stomach and intestinal mucosa, binds excess fluid in the intestines and also provides natural vitamins and minerals.



Size	Item no.
3 kg	209002
10 kg	209003

Composition

Carrot, celery, parsnip, apple granules, parsley stalks, horseradish, carob.

Feeding recommendation

Depending on the size of horse, add 50 to 100 g of Hortus to the feed, pre-soaked. Once pre-soaked, its volume will increase five-fold.

Analytical constituents:

Crude protein 7.4%, crude fats 2.2%, crude fibre 11.6%, crude ash 5.3%.

Minerals: Calcium 0.44%, phosphorus 0.19%, sodium 0.19%.

Orgamin® – loose or pelleted

Mineral-rich herb, vegetable and bark mixture

Feed supplement for horses

Orgamin® contains only parts of plants and algae. It is the natural alternative to usual mineral feeds, which are mostly made of inorganic and synthetic substances. Until just a few decades ago, there were no inorganic mineral mixtures for horses available, except for salt. Despite the much higher demand in the past due to the extreme performance required of them, horses could still meet their nutritional needs by grazing on species-rich meadows/hay, leaves, bark and straw.

Composition

Seaweed, carrots, parsnips, stinging nettle, celery, shepherd's purse, lovage, anise, fennel seeds, oak bark, leek, rosehip, birch bark, coconut, horsetail, apple pectin.



Loose		Pelleted	
Size	Item no.	Size	Item no.
1 kg	209009	1 kg	209010
3 kg	209005	3 kg	209007
10 kg	209006	10 kg	209008

Feeding recommendation

Depending on the weight of the horse, give 50 to 120 g daily as a course of treatment or on a regular basis. A mineral lick should always be additionally offered.

1 measuring cup loose = 40 g,
1 measuring cup pelleted = 100 g.

Analytical constituents:

Crude protein 8.7%, crude fats 5.8%, crude fibre 11.7%, crude ash 9.3%.

Minerals: Calcium 1.05%, phosphorus 0.26%, sodium 0.67%.

Other natural minerals and trace elements per kg:

Potassium 16 g, magnesium 2.4 mg, zinc 19.6 mg, manganese 50.7 mg, iron 153 mg, selenium 0.14 mg.

Waldweide (forest pasture)

Natural vitamins, minerals and antioxidants from forests and hedges

Feed supplement for horses

Leaves, barks and fruits from forests and hedges have enriched the natural diet of horses since ancient times. This has since been forgotten when it comes to feeding. Domesticated horses, which have preserved their natural instincts, graze over the fence of their enclosures and, if permitted, take advantage of the natural foliage on offer whilst out riding. Give horses what they are missing with Waldweide: Natural vitamins, organically-bound minerals and many antioxidants.

Composition

Birch leaves and bark, oak bark, ash leaves, walnut leaves, beech bark, elderberry leaves, cherry stalks, erica, rosehips with seeds, elderberries.

Feeding recommendation

Depending on the size of horse, mix 30 to 70 g of PerNaturam Waldweide into the feed, preferably moistened. Feed Waldweide along with the other mixtures from PerNaturam.



Size	Item no.
1 kg	208044
5 kg	208017
10 kg	208031

Analytical constituents:

Crude protein 6.2%, crude fats 3.3%, crude fibre 32.2%, crude ash 5.2%.

Minerals: Calcium 1.33%, phosphorus 0.01%, sodium 0.01%.

Minerals

Seealgenmehl (seaweed powder)

Ascophyllum nodosum

To optimise the mineral supply

Feed material for horses

The seaweed *Ascophyllum nodosum* contains all the minerals and trace elements that the body needs, in an almost ideal composition. All the elements are organically-bound in its cell structure. This alga mirrors the sea with all its salts, corresponding to the composition of a living body. The body of a horse can largely self-determine what and how much it wants to absorb. Unlike with inorganic mineral feeds, organically-bound minerals and trace elements are metabolised as required. Thus, the risk of over-mineralisation is avoided.

Composition

100% powdered seaweed (*Ascophyllum nodosum*).

Feeding recommendation

PerNaturam's seaweed powder should be fed regularly as a supplement, preferably daily: depending on the size and performance requirement of the horse, 2 to 3 scoops (25 to 35 g).

Analytical constituents: Crude protein 6.1%, crude fats 2.7%, crude fibre 3.2%, crude ash 19.5%.



Minerals:

Calcium 1.1%,
phosphorus 0.11%,
sodium 3.18%,
iodine 0.06%.

Size **Item no.**
3 kg 209001

Reine Bierhefe (pure brewer's yeast)

Active intestinal flora – healthy skin – beautiful coat

Feed material for horses

PerNaturam's pure brewer's yeast is important for restoring intestinal flora, especially after it has been affected by antibiotics and worming treatments. It is also beneficial in the case of skin, coat and fertility disorders. Pure brewer's yeast from PerNaturam, i.e. not from Brewer's spent grain (BSG), optimises the supply of amino acids (contains all essential ones) and vitamins, in particular, the whole B-complex and trace elements (rich in iron, manganese and zinc).

Composition

100% pure
brewer's yeast
without spent grains.

Feeding recommendation

Depending on the weight of the horse, feed 20 to 50 g daily, as a course of treatment or on a regular basis in smaller quantities. The scoop holds 10 g.

Analytical constituents: Crude protein 43.3%, crude fats 2.8%, crude fibre 1%, crude ash 6.1%.

Minerals: Calcium 0.51%, phosphorus 1.11%, sodium 0.02%.



Size **Item no.**
3 kg 202008

Wildbeeren (wild berries)

Vitamin-rich berry blend – especially for autumn and winter

Feed supplement for horses

Berries are a staple part of a horse's diet. This makes wild berries a valuable feed supplement for horses – it provides the body with many nutrients and vital substances, including vitamins C, K and beta-carotene. The pectins from the fruits protect the intestinal mucosa.

Composition

Rosehips with seeds, blueberries, elderberry berries, barberries, blackcurrants, sea buckthorn berries, rowan berries, juniper berries, hawthorn berries.

Feeding recommendation

In winter, mix a handful into the feed daily.

Analytical constituents: Crude protein 5%, crude fats 6.1%, crude fibre 22.6%, crude ash 3.7%, moisture 12.1%.

Minerals: Calcium 0.52%, phosphorus 0.15%, sodium 0.003%.



Size **Item no.**
1 kg 206023
3 kg 206024

Huf-Fell-Perfekt (hoof-coat-perfect)

Amino acids and minerals for strong hooves and a beautiful coat

Feed supplement for horses

The high proportion of biotin combined with L-methionine (sulphurous amino acid) and other indispensable substances for horn and hair formation ensure a distinct, rapid improvement in hooves and coat. In cases of hoof damage, PerNaturam's Huf-Fell-Perfekt should be given regularly for a prolonged period until the entire hoof has regrown and during a change of coat for at least six weeks. The perfect complementary supplement is velvet oil by PerNaturam.

Composition

Sunflower lecithin (GMO-free), brewer's yeast, seaweed powder, rosehip peel.

Feeding recommendation

During the change of coat, feed 40 g daily (4 to 5 scoops) for at least four weeks, ideally six). For new hoof horn formation in cases of hoof damage, give 30 g daily (3 scoops) over several months, up to a year. Consistency and duration are important in this case.

Analytical constituents: Crude protein 13.1%, crude fats 13.7%, crude fibre 1%, crude ash 28.1%.



Size	Item no.
1 kg	203002
2.5 kg	203003



Minerals: Calcium 6.29%, phosphorus 0.51%, sodium 0.53%.

Nutritional additives per kg: 2,000,000 mcg biotin (D(+)-biotin), 2,000 mg vitamin E, 10,000 mg zinc as glycine zinc chelate, hydrate, 100 mg folic acid, 5,000 mg iron, 1,000 mg copper, 6,000 mg manganese as glycine manganese chelate, 4,000 mg L-methionine, 2,000 mg lysine.

Technological additives per kg: 50 g of silica precipitated/E551.

Due to the increased content of trace elements compared to complete feed, Huf-Fell-Perfekt must not make up more than 1% of the total daily feed.



Velvet-Coat

Herbal granules for a healthy coat and strong hooves

Feed supplement for horses

Damage to the skin, coat and hooves almost always indicates poor nutrition, resulting in either hair or hooves, sometimes both, being poorly supplied with the necessary nutrients.

Velvet-Coat delivers these missing substances. The basis is micronised herbs and algae, which are granulated in a cold

process. The high bioavailability of nutrients ensures unusually fast results. Velvet-Coat is best combined with PerNaturam's velvet oil. Composition Micronised herbs (pansy, horsetail, fumitory, milk thistle, goldenrod, hawthorn, nettle), micronised algae (Ascophyllum, spirulina), brewer's yeast, wheat germ.

Feeding recommendation

During the change of coat give 40 g daily (1 scoop = 10 g), for a minimum of four weeks, ideally six. For new hoof horn formation in cases of hoof damage, give 30 g daily over several months until the hoof horn has fully grown back.

Analytical constituents: Crude protein 10.7%, crude fats 1.8%, crude fibre 1%, crude ash 46.9%.

Minerals: Calcium 12.8%, phosphorus 4.4%, sodium 1.61%, iron 2.5%, manganese 2%.

Nutritional additives per kg: 2,000 mg biotin (as D(+)-biotin), 4,000 mg L-methionine, 480 mg vitamin E, 2,500,000 IE vitamin A, 200,000 IE vitamin D3, zinc chelate of glycine hydrate 1,500 mg.

Size	Item no.
900 g	203500
2.5 kg	203501

Brennesselkraut (stinging nettle herbs)

Urtica dioica

Rich in calcium, potassium and organic acids

Feed material for horses

The nettle promotes excretion through the kidneys, especially because of its high potassium content. It also strengthens the circulation and provides the body with many minerals and trace elements, e.g. iron, which supports blood formation. The aquaretic effect cleanses and reduces deposits in the joints.

Composition

100% stinging nettle, cut.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 handfuls of stinging nettle by PerNaturam into the feed daily.

Analytical constituents:

Crude protein 15.3%, crude fats 2.1%, crude fibre 20%, crude ash 14.6%.



Size	Item no.
2 kg	206006

Minerals: Calcium 2.75%, phosphorus 0.44%, sodium 0.01%.

What is the optimal supply of fatty acids for horses?

Do horses even need oils and fats?

Most of our horses are over-supplied. So what role do oils and fats play in their diet?

In nature, horses rarely have opportunities to find feed that is rich in fats. They probably eat seeds and nuts, but as herbivores their systems are not adapted to pure fats. This means that overfeeding on fat puts a strain on the metabolism, especially the pancreas. On the other hand, fats are important for building cell membranes, for the nervous system and for the absorption of lipophilic substances, e.g. fat-soluble vitamins.

Therefore, it is necessary to pay attention to the supply of essential fatty acids. Two of the essential nutrients, i.e. substances that the body cannot form itself and must absorb through food, are linoleic acid (LA, omega-6 fatty acid, diunsaturated) and alpha-linolenic acid (ALA, omega-3 fatty acid, tri-unsaturated).

These types of omega-3 and omega-6 fatty acids represent the most essential fatty acids (EFA). They influence skin function (skin and coat formation), help lessen itching and eczema, inhibit inflammatory processes in the body and support the heart and circulation. EFAs are important components of cell membranes (cell envelopes) and serve to maintain the membrane functions. In other words, they keep the cells healthy and thus ultimately the whole metabolism as well!

It is not only the absolute quantitative fat intake via food that is crucial, but also the ratio of omega-6 to omega-3 fatty acids in the diet in particular. (This is also relevant for the human diet!)



Energiekörner-Mischung (energy grain mixture)

High-fat seeds for energy supply

Feed supplement for horses

Plant seeds are particularly rich in energy, as plants pack them with the energy they need for germination. Horses that graze on high grass in the late summer and autumn pull the seed stalks off the grass and herbs with their teeth.

Composition

Sunflower seeds, hemp seeds, buckwheat, camelina, black cumin, cardoon, perilla, sesame, chia, sorghum, millet.

Feeding recommendation

Soak the PerNaturam energy grain mixture in water for 15 minutes before feeding or, preferably, grind or crush the grains in a coffee grinder. Depending on the size and energy requirements of your horse, give ½ to 1 measuring cup daily, especially during performance phases, in winter or in cases of emaciation. The measuring cup holds 80 g.

Analytical constituents: Crude protein 15.3%, crude fats 3.1%, crude fibre 12%, crude ash 22.7%.



Size	Item no.
1 kg	212006
3 kg	212007

Minerals: Calcium 6.63%, phosphorus 0.41%, sodium 0.94%.

Hanf-Öl (hemp oil)

Pharmaceutical grade, cold-pressed

Feed material for horses

Hemp oil is important in all stages of life and is especially beneficial to the skin. The hemp oil from PerNaturam is native and cold-pressed. It contains 14% monounsaturated fatty acids, 55% linoleic acid, 18% alpha-linolenic acid (omega-3) and 3% gamma-linolenic acid. The high chlorophyll content ensures that the oil has a long shelf life. This fact and its ideal composition make hemp oil clearly superior to linseed oil.

Composition

100% hemp oil.

Feeding recommendation

Depending on the size of horse, regularly add 1 to 3 tablespoons to the feed.

Analytical constituents:

Crude protein 0.1%, crude fats 99.9%, crude fibre 1%, crude ash 0.1%, moisture content 0.3%.

Size	Item no.
500 ml	210001



Velvet-Öl (velvet oil)

With the perfect fatty acid composition for the skin, coat and hooves

Feed material for horses

Velvet oil is a blend of cold-pressed oils (sunflower oil, African argan oil as well as rapeseed, hemp and linseed oils), which has a fatty acid composition perfectly matched to the requirements of the skin, coat and hooves. The supply of fatty acids is optimised by the very high levels of linoleic and linolenic acid and oleic acid, palmitic acid, other essential unsaturated fatty acids and the high levels of natural tocopherols (vitamin E).

Composition

Cold-pressed oil blend of sunflower oil, argan oil and rapeseed, hemp and linseed oil.

Feeding recommendation

Add 2 to 3 tablespoons to the food daily.

Analytical constituents:

Crude fats 100%.

Size	Item no.
500 ml	210008



Reiskeim-Öl (rice germ oil)

Pharmaceutical grade, cold-pressed

Feed material for horses

Pharmaceutical grade rice germ oil from PerNaturam is rich in unsaturated fatty acids and contains the active rice germ ingredient gamma-oryzanol, which promotes both fertility and muscle growth. It also has an ideal fatty acid structure of unsaturated oleic acid (38 to 43%), linoleic acid (32 to 43%) and palmitic acid (15 to 20%) and is also particularly rich in tocopherol (vitamin E). Rice germ oil is especially important for broodmares before mating, for foals and during growth phases.

Composition

100% cold-pressed rice germ oil.

Feeding recommendation

Add 2 to 3 tablespoons to the feed daily. Alternate with other oils. Never use for sport horses before competitions!

Analytical constituents: Crude fats 99%.

Size	Item no.
500 ml	210003



The importance of the intestinal flora

The intestinal mucosa is densely populated by over 100 trillion bacteria defending their home against unwelcome germs. Certain yeasts, protozoans and worms keep them company, and they all have their place in the gut. But they must be in balance. A body is unable to live without the intestinal flora, as this is where a large part of the immunisation process takes place. Imbalanced nutrition lacking vital substances, limited pasture or hay feed without herbal constituents, combined with concentrated livestock feed with its high percentage of starch lead to a depletion of the intestinal flora. The intestinal environment is altered, the intestines become acidified and the microbiome of the intestines is no longer able to cope with infections or parasites. Feeding a horse in an appropriate way also means nourishing the intestinal flora. This is the only way it can fulfill its manifold tasks in terms of metabolism and the immune system. The intestinal flora produces various vitamins, enzymes and amino acids and it ensures the breakdown and excretion of toxins. An intact intestinal flora is reflected in the vitality and performance of your horse and also in smooth skin, a shiny coat and stable hooves.

Intestinal flora, what is it actually?

Intestinal flora is the totality of microorganisms that colonise the intestines of humans and animals; they are of crucial importance to the host organism. There is a close interdependence between two living species, which is why we speak of an intestinal ecosystem.

The term “flora” is based on the earlier classification stating that bacteria and many other microorganisms belong to the plant kingdom. As bacteria form their own domain (formerly prokaryotes) in the scientific classification of living beings, today we speak of a ‘community of intestinal microorganisms’ or of a ‘gut microbiota’ – the intestinal microbiome. The intestinal flora belongs to the microbiome of every multicellular organism.



A guide to our herbal mixtures

The intestine and its intestinal flora can get out of balance in various ways. Accordingly, nature offers many different plants for a wide variety of problems. The numbers after the product name stand for the different problem areas – they serve as an initial guide to which mixtures might be the right ones for your horse. Of course, we will be happy to advise you further on the individual situation of your horse – you can reach us on + 49 (0)6762 963 622 99.

- 1 = Care of intestinal flora
- 2 = Colon cleansing, especially after antibiotic treatment, worming, medication
- 3 = Faecal water
- 4 = Mould and mycotoxins
- 5 = Gasification, flatulence
- 6 = Intestinal inflammation
- 7 = Stomach

Ostpreußen Kräuter (Ostpreußen herbs)¹

To optimise digestion

Feed supplement for horses

This mixture is indispensable for horses that are fed with grasses very rich in protein and fructan. Horses are always prone to indigestion and often suffer from diarrhoea, faecal water, colic and laminitis. A distended belly is an indication of how much the intestinal flora is disturbed; usually, the horse will not like being touched and cleaned in this area. Ostpreußen herbs offers the right help. The bitter, pungent herbs promote the intestinal flora and help to better digest energy- and protein-rich grasses and hay. They promote the secretion of digestive juices and stimulate the pancreas. This can restore the intestinal flora, thus relieving the caecum.

Composition

Caraway, meadowsweet, yarrow, buckwheat, hemp-agrimony, parsnip, couch grass, blueberry leaves, deadnettle, bedstraw, fennel, knotweed, coriander.



Feeding recommendation

Herbs should always be used as a feed supplement. Depending on the size of horse, mix 30 to 70 g (1 to 3 handfuls) of PerNaturam's Ostpreußen herbs with the regular feed daily. We recommend that you alternate different feed mixtures from PerNaturam – ideally, moistened.

Analytical constituents:

Crude protein 9.70%, crude fats 4.3%, crude fibre 23%, crude ash 7.2%.

Minerals: Calcium 0.75%, phosphorus 0.31%, sodium 0.02%.

Size	Item no.
500 g	207013
1 kg	207007
3 kg	207008
10 kg	207020

Amara Bitterkräuter (bitter herbs)^{1 · 3}

Stimulates digestive secretions and stabilises intestinal flora

Feed supplement for horses

Bitter herbs belong to the natural daily diet of horses. They like to eat them in small quantities. Nowadays, many horses do not get offered a single one of these bitter herbs, resulting in mucosal inflammations, imbalances in the intestinal flora, colic, faecal water and diarrhoea. Bitter herbs stimulate the production of digestive juices – without which good digestion is impossible. They create the vital conditions for the nutritional uptake of the feed and the production of essential vitamins such as B6, B12 and K.

Composition

Wormwood, rosemary, mugwort, angelica, centaury, sweet flag, dandelion roots, bogbean, tormentil.



Feeding recommendation

Feed 30 to 70 g of Amara bitter herbs daily. In the case of faecal water and diarrhoea, combine with Adstringa tannin herbs; we also suggest Terrasan (clay) and EquiGaron or peloid pellets.

Analytical constituents:

Crude protein 8%, crude fats 4.5%, crude fibre 22.2%, crude ash 5.8%.

Minerals: Calcium 0.67%, phosphorus 0.23%, sodium 0.11%.

Size	Item no.
500 g	208018
1 kg	208019
3 kg	208020

Stomach, Intestine & Digestion

Toscana Mischung (Toscana mixture) ^{2 · 4 · 5}

In case of germ and fungal infection in the intestinal tract

Feed supplement for horses

The spicy fragrant herbal mixture promotes the secretion of digestive juices and supports beneficial intestinal flora. The aromatic herbs are rich in essential oils and inhibit development of germs and fungi in the gut.

Composition

Basil, savory, thyme, sage, rosemary, orange peel, olive leaves.

Also helpful:
**Waldweide
(forest pasture) ¹**
promotes diversity
of the intestinal flora



Further product
details on page 8

Adstringa Gerbstoffkräuter (tannin herbs) ³

Regeneration of the mucous membranes, in cases of diarrhoea and faecal water

Feed supplement for horses

Serious digestive problems are becoming more common in horses. Nowadays, many horses particularly suffer from faecal water. Faecal water indicates a permeable intestinal mucosa and poor absorption of intestinal water. Whenever this problem occurs, the intestinal flora is always disturbed – often by fructans, fungi and fungal toxins (endophytes) – and as a result, the entire digestive system too. The tannins contained in the astringent herbs seal the intestinal mucosa.

Adstringa tannin herbs should be combined with Amara bitter herbs and, depending on the severity of the problem, with Terrasan, EquiGaron or also with peloid pellets from PerNaturam.



Size	Item no.
500 g	208041
1 kg	208042
3 kg	208043

Feeding recommendation

Add 30 to 50 g of PerNaturam's Toscana mixture to the diet daily, preferably over a period of 4 weeks or alternating weekly with other PerNaturam herbal mixtures.

Analytical constituents:

Crude protein 15.4%, crude fats 6.6%, crude fibre 14.2%, crude ash 10.5%.

Minerals: Calcium 1.83%, phosphorus 0.24%, sodium 0.04%.



Size	Item no.
500 g	208021
1 kg	208022
3 kg	208023

Composition

Blackberry leaves, yarrow, oak bark, knotweed, oregano, silverweed, white horehound, marigold.

Feeding recommendation

For a 600 kg horse, feed 50 to 70 g of Adstringa tannin herbs daily for 5 to 7 days, then give Amara bitter herbs for 3 to 4 weeks. It makes sense, and is often necessary, to add EquiGaron and/or Terrasan (green clay) to the feed as well as peloid pellets from PerNaturam for 2 weeks. In most cases, this remedies the problem, regulates the intestinal mucosa, allowing the desired intestinal bacteria to settle and proliferate.

Analytical constituents: Crude protein 9.5%, crude fats 3%, crude fibre 28%, crude ash 8.6%.

Minerals: Calcium 0.58%, phosphorus 0.19%, sodium 0.06%.

Reine Bierhefe (pure brewer's yeast)²

Active intestinal flora – healthy skin – beautiful coat

Feed material for horses

PerNaturam's pure brewer's yeast is important for restoring the disturbed intestinal flora, especially after it has been affected by antibiotics and worming treatments. It is also beneficial in the case of skin, coat and fertility disorders. Pure brewer's yeast from PerNaturam (i.e. not from brewer's spent grain) optimises the supply of amino acids as it contains all of the essential ones. It also contains vitamins, in particular the entire B complex, and trace elements (rich in iron, manganese and zinc).

Composition

100% pure brewer's yeast without spent grain.

Feeding recommendation

Feed between 20 and 50 g daily, depending on the weight of the horse, as a course of treatment or on a regular basis in smaller quantities. The scoop holds 10 g.



Size	Item no.
3 kg	202008

Analytical constituents: Crude protein 43.3%, crude fats 2.8%, crude fibre 1%, crude ash 6.1%.

Minerals: Calcium 0.51%, phosphorus 1.11%, sodium 0.02%.

Apfel-Pellets (apple pellets)³

Bind bacteria, their toxins and fluids

Feed material for horses

Apple pellets are rich in pectins, which bind bacteria, their toxins and water, in turn bringing relief to the disturbed intestine. Because of their high crude fibre content and low energy, PerNaturam's apple pellets are ideal for horses that should not receive concentrated feed, and will help to prevent feed envy. They can also be added to concentrated feed to provide a healthy change or serve as the basis for home made cereal. They are very popular as treats. The natural, fully preserved pectin content of the apples, as well as their swelling capacity, contributes to the regulation of intestinal activity and flora.

Composition

100% pellets made from gently pressed apples.

Feeding recommendation

Depending on the size of horse, feed between 50 and 100 g daily (as a feed supplement) or 500 g daily (as part of a treatment course).



Analytical constituents:

Crude protein 7,4%, crude fats 4,3%, crude fibre 29%, crude ash 4,3%, moisture content 12%.

Minerals: Calcium 0.15%, phosphorus 0.16%, sodium 1.12%, iron 0.02%.

Size	Item no.
5 kg	202006
10 kg	202007

Anis-Kümmel-Fenchel (anise-caraway-fennel)^{5·6}

For soothing the gastrointestinal mucosa

Feed supplement for horses

Anise, caraway and fennel are the typical spice plants recommended for the treatment and prevention of gastrointestinal problems, especially gastric ulcers, severe flatulence or colic. This mixture has also proven its benefits for horses that tend towards nervous colic. Horses thoroughly enjoy eating this mixture and it can also simply be used to vary the flavour of their feed. For gastric ulcers and disturbed intestines, we recommend mixing the PerNaturam anise-caraway-fennel mixture with a liquorice root brew. Also add Ostpreußen herbs and/or Amara bitter herbs to the feed as primary care. Anise-caraway-fennel also promotes milk production. The mixture is therefore very important for lactating mares!

Composition

Anise, caraway and fennel in equal parts, crushed.



Size	Item no.
1 kg	208009
2.5 kg	208030

Feeding recommendation

Depending on the size of horse and the problem, feed up to 3 scoops of PerNaturam anise-caraway-fennel several times a day. It is even more effective when soaked in hot water. The scoop holds 10 g.

Analytical constituents:

Crude protein 19.2%, crude fats 23%, crude fibre 11.6, crude ash 6.3%.

Minerals: Calcium 0.89%, phosphorus 0.51%, sodium 0.02%.

Stomach, Intestine & Digestion

EquiGaron^{2·3}

Binds bacteria and toxins in the gut

Feed material for horses

EquiGaron is a wonderful natural remedy to relieve the bowel, especially in the case of faecal water, flatulence and signs of colic. The peel of various fruits contain so-called galacturonic acids, which make up EquiGaron. The ends of these galacturonic acid molecules provide docking stations for bacteria which, once attached, are prevented from adhering to the mucous membrane. The galacturonic acids also combine to form dense networks in which water and toxins are bound and thus excreted.

Composition

EquiGaron contains the short-chain galacturonic acids from apple pectin.

Feeding recommendation

Depending on the size of horse, add 3 to 5 scoops of EquiGaron daily for several days in a row up to a maximum of 8 scoops daily. 1 scoop holds 7.5 g.



Analytical constituents:

Crude protein 1.8%, crude fats 0.5%, crude fibre 1%, crude ash 7.8%.

Minerals: Calcium 0.18%, phosphorus 0.06%, sodium 1.61%.

Size	Item no.
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500 g	202001
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1 kg	202002
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Peloid-Pellets^{2·3}

With peat; regulates intestinal flora and binds faecal water

Feed supplement for horses

These are used for the regulation of the intestinal flora and the binding of faecal water. The plant ingredients and natural substances of the peloid pellets support the metabolism. The peat, which absorbs and swells, and the fruits and seeds combined in the pellets bind excess fluid in the gut, reducing any faecal water. These herbs soothe the irritated intestinal mucosa and gently regulate intestinal activity.

Composition

Dry peat, blueberries, balm stalks, marigold blossom, savory, chia seeds, poppy seeds.

Feeding recommendation

Add 20 to 50 g of PerNaturam peloid pellets to the feed daily, preferably over a period of 4 weeks. 1 scoop = 85 g.



Size	Item no.
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1 kg	205014
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3 kg	205015
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Analytical constituents:

Crude protein 13.3%, crude fats 7.9%, crude fibre 14.9%, crude ash 8.7%.

Minerals: Calcium 0.74%, phosphorus 0.26%, sodium 0.06%.



We are happy to help!

Do you have any questions about our products?

Does your horse have specific problems?

We are happy to help you!

We can discuss your requirements and offer possible solutions on an informal basis with no obligation.

You can reach us from Monday to Thursday, 8 a.m. to 6 p.m.,

Friday from 8 a.m. to 5 p.m. and Saturday from 9 a.m. to 12 midday.

Our advisors can be reached on the direct number: +49 (0)6762 963 622 99

TopiMal³

For diarrhoea and faecal water

Feed supplement for horses

PerNaturam TopiMal is a combination of Jerusalem artichoke and apple pellets. The above-ground parts of the Jerusalem artichoke are rich in absorbent raw fibres that bind faecal water. This effect is reinforced by the natural pectin content of the apple pellets. In addition, bacteria and endotoxins are bound, alleviating strain on the intestines and the metabolism. TopiMal is an important supplement during feed changes to stabilise the intestinal flora during the on and off pasture phase, to protect the intestinal mucosa and to regulate the electrolyte balance. It regulates intestinal activity and provides for structured, solid droppings. Because of the high swelling capacity and its ability to bind bacteria and endotoxins, TopiMal gently helps to regulate bowel activity.

Composition

50% Jerusalem artichokes, 50% gently juiced apples.

Feeding recommendation

Depending on the size of horse, give 100 to 500 g daily. The scoop holds 95 g.

Analytical constituents:

Crude protein 6.0%, crude fats 2.8%, crude fibre 28.4%, crude ash 5.3%.

Minerals: Calcium 0.64%, phosphorus 0.15%, sodium 0.69%.

Size Item no.

5 kg 202011

10 kg 202012



Resin forte^{4·6}

Oriental delicacy of frankincense & myrrh

Feed supplement for horses

Resin forte frankincense and myrrh resins care for the intestinal mucous membranes and support healthy intestinal flora. Traditionally, frankincense and myrrh are also given as a supplement for joint problems and for metabolic support.

Composition

Frankincense concentrates of *Boswellia serrata* and myrrh resin.

Feeding recommendation

Add 5 to 10 g of Resin forte to the feed daily, for a minimum of four weeks. 1 scoop = 10 g.

Analytical constituents: Crude protein 4.4%, crude fats 26.6%, crude fibre 9%, crude ash 24.7%, boswellic acid content 40%.



Size Item no.

250 g 205016

500 g 205017

Minerals: Calcium 0.77%, phosphorus 0.01%, sodium 0.02%.

EquiZeolon²

For colonic cleansing

Feed material for horses

EquiZeolon has an extraordinary adsorption capacity, particularly boosted by tribodynamically activated zeolite (clinoptilolite). In this process, the porosity of the material is maintained – 1 g EquiZeolon has an adsorption surface of over 6000 m². Toxins, heavy metals and other pollutants can be bound during the digestive process and eliminated from the body. The minerals and trace elements contained in zeolite, together with galangal and marigold, support beneficial intestinal flora. EquiZeolon is tasteless. It can be used in the long-term to support the body's elimination processes and the acid-base balance. It can also be used in stressful situations, to regulate the intestinal flora and to cleanse the intestines after strain.

Composition

Ground activated zeolite with dolomite, galangal root and marigold flowers.

Feeding recommendation

Large horses receive 25 to 50 g, small horses (up to 300 kg) receive 15 to 25 g. The scoop holds 10 g. Add to the feed 1 to 2 times per day.



Application advice

Due to the high content of zeolite clinoptilolite feed a max. of 60 g daily (depending on the size of horse).

Analytical constituents: Crude protein 1%, crude fats 0.3%, crude fibre 1.9%, crude ash 92.1%.

Minerals: Calcium 3.59%, phosphorus 0.02%, sodium 0.34%.

Size Item no.

900 g 202022

2.5 kg 202023

Stomach, Intestine & Digestion

Terrasan²

Absorption in acute situations

Additive for horses

Terrasan consists of clay minerals with high absorption capacity. Its binding property becomes effective in the intestine before it is excreted again, without burdening the metabolism.

Composition

100% bentonite montmorillonite (1m558/technological additive).

Feeding recommendation

Internally: For 10 to 14 days, add 1 to 2 scoops, mixed with water, to the feed daily. The scoop holds 3 g. **Externally:** For a compress, stir Terrasan to mix (possibly combined with Arnica tincture), apply, and then cover with a bandage until dry. Because of its high absorption capacity, Terrasan should not be given at the same time as other vitamin and/or mineral feeds; ideally leave at least a 1 hour interval between the mineral/vitamin dose and administering Terrasan.



Analytical constituents:

Crude ash 86.6%.

Minerals: Calcium 0.61%, phosphorous 0.01%, sodium 1.27%.

Size 1 kg
Item no. 202003

Ingwer (ginger)^{4·5·6}

Zingiber officinale

Traditionally used to promote digestion and improve joint function

Feed material for horses

Ginger is rich in aromatics, and pungent and bitter substances. Ginger stimulates the digestion and calms a sensitive stomach if administered several times in small amounts. It improves blood circulation and thus the blood supply in the joint areas. Ginger encourages a more active metabolism and better mobility, especially in older horses.



Composition

100% ginger, cut.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons (10 to 30 g) of ginger into the feed.

Analytical constituents:

Crude fibre 7.9%.

Size 1 kg
Item no. 206003

Bio-Curcuma-Myrrhe-Öl (organic turmeric and myrrh oil)^{1·2·6}

Regenerates the mucous membranes in the stomach and intestines

Feed supplement for horses

Organic Turmeric and myrrh oil combines ayurvedic traditions with the findings of modern research. Turmeric extracts in rapeseed and sesame oil have a stabilising effect on the intestines and improve metabolism. The high antioxidant capacity reduces inflammatory processes and pain. The oil extracts protect the mucous membranes and, together with black pepper, improve the absorption of nutrients.



Composition

Rapeseed oil, sesame oil, turmeric (5%), myrrh (1%), black pepper.

Feeding recommendation

Add 5 to 10 ml, 2 to 3 times daily, to the food or administer directly with a pipette or oral syringe.

Analytical constituents: Crude protein 0.3%, crude fats 98%, crude fibre 1%.

Minerals: Calcium 0.01%, phosphorus 0.01%, sodium 0.01%.

Size 250 ml
Item no. 202026
2* x 250 ml *Only for final consumers.

Süßholzwurzel (Licorice root)^{5·6·7}

Glycyrrhiza glabra

Soothes the stomach and intestinal mucous membranes: antibacterial, antifungal

Feed material for horses

The licorice root is an effective antioxidant, used to soothe the mucous membranes in the digestive and respiratory tract. It contains more than 40 different flavonoids. Licorice calms the stomach and intestinal mucous membranes, but also stressed bronchi. It has been clinically proven to be antibacterial and antimycotic and to have an anti-inflammatory and antispasmodic effect. For stomach and intestinal problems, especially gastric ulcers, you can improve efficacy with PerNaturam anise-caraway-fennel mixture.



Composition

100% licorice root, cut.

Feeding recommendation

Depending on the size of horse, add 1 to 3 tablespoons of PerNaturam licorice root to ½ litre of water and simmer gently for 15 minutes; add the boiled licorice root and the cooled brew to the feed.

Analytical constituents:

Crude fibre 41%.

Size 1 kg
Item no. 206005

Dezidum®-Basenpulver (base powder) ^{1 · 2}

For over-acidified intestines

Feed supplement for horses

The acid-base balance of many horses is disturbed due to inappropriate feeding practices. Protein and cereal-rich nutrition, combined with the oversupply of concentrates, leads to hyperacidity; above all, this puts a strain on the basophilic organs, liver and pancreas. The resulting metabolic disorders cause malfunctions in these organs, damaging the skin and hooves and resulting in poor microcirculation. The body's cells are no longer supplied with sufficient nutrients and gas exchange is impeded. Diet change alone cannot eliminate the problem. To dissolve the acid deposits in the connective tissue and to ensure the deacidification of the cells, the body requires sodium bicarbonate, potassium, magnesium and zinc. Dezidum®-Basenpulver provides these substances. It contains sodium bicarbonate as a crucial alkaliser in the metabolism and organically-bound trace elements.

Composition

Sodium bicarbonate, tripotassium citrate, magnesium L-aspartate, anise.

Feeding recommendation

For adult horses add 1 heaped scoop (25 g) to moistened hay or mix the appropriate amount with solid feed daily. Ponies and small horses receive ½ scoop.



Please adhere to our feeding recommendation!

Size	Item no.
750 g	202014
1.5 kg	202018
4 kg	202019

Analytical constituents: Crude protein 3.4%, crude fats 0.5%, crude ash 60.5%, crude fibre 1%.

Minerals: Calcium 0.02%, phosphorus 0.01%, sodium 21.5%, potassium 2.26%, magnesium 0.5%.

Nutritional additives per kg: Glycine zinc chelate, hydrate 15 g.

Bio-Löwenzahnsaft (organic dandelion juice) ^{1 · 2}

Bitters for the intestine, liver, gall bladder and kidneys

Liquid feed material for horses

Due to its gentle action on the internal organs, dandelion is used to stimulate the liver, gall bladder and kidneys as well as digestion and to help regulate the intestinal flora. Dandelion is one of the few plants that everyone knows. It is very rich in bitter substances, is cholagogic and stimulates the production of gastric and intestinal juices. In addition, dandelion contains plenty of potassium, which is indispensable for saltatory conduction, blood pressure and acid-base balance.

Composition

100% organic dandelion juice.

Feeding recommendation

Give 1 to 3 tablespoons daily, depending on the size of horse.



Always refrigerate and use within two weeks of opening!

Analytical constituents:

Moisture content 97.5%, crude fats 0.1%, crude protein 0.3%, crude ash 0.58%, crude fibre 1%.

Minerals: Calcium 0.03%, phosphorus 0.01%, sodium 0.01%.

Size	Item no.
250 ml	202024
500 ml	202025

Ägyptischer Schwarzkümmel (Egyptian black cumin) ^{2 · 6}

Nigella sativa

For the care of mucous membranes

Feed material for horses

Egyptian black cumin is an ancient medicinal and spice plant that has been used since the time of the Pharaohs. Horses love its spicy flavour! Above all, Egyptian black cumin seed is appreciated for its positive effect on the mucous membranes and the intestinal flora.

Composition

100% Egyptian black cumin seed, *Nigella sativa*.



Feeding recommendation

Depending on the size of horse and the problem, mix 1 to 3 heaped tablespoons of ground Egyptian black cumin seeds into the feed daily for 1 or 2 weeks.

Analytical constituents: Crude fibre 5.5%

Size	Item no.
1 kg	206018
3 kg	206019

Stomach, Intestine & Digestion

Ringelblume (marigold) ^{2 · 3 · 6 · 7}

Calendula officinalis

Cares for the mucous membranes and promotes balanced intestinal flora

Feed material for horses

Marigold is traditionally one of the most important medicinal plants there is and has been well researched. Although it is well known for its excellent nourishing effect on the skin, it also has exactly the same effect on the inside! It is rich in essential oils, contains saponins, carotenoids, flavonoids, bitter substances and mucilage. Marigold conditions the mucous membranes in the stomach and intestines. It has a positive effect on the liver and gall bladder, leads to a balanced intestinal flora and nourishes the skin. Its effect against flagellates, such as trichomonads, has also been proven.

Composition

100% marigold flowers with calyxes.



Feeding recommendation

Depending on the size of horse, mix a handful (about 20 to 25 g) of PerNaturam marigold into the feed daily.

We recommend washing irritated and itchy skin with a marigold infusion.

Analytical constituents:

Crude fibre 12.6%.

Size 500 g
Item no. 206012

Thymian (thyme) ^{5 · 6 · 7}

Thymus vulgaris

For flatulence; parasitic defence

Feed material for horses

Thyme is a well-known home remedy for clearing airways and also has a powerful germicidal effect. It is being increasingly used as an alternative to antibiotics. Due to the high proportion of essential oils, thyme affects the bronchi as well as the digestive system. It is highly recommended for colic. Thyme also expels parasites from the intestines. For respiratory problems, especially deep-seated mucous, use EquiLichmet, aerobic oil and aerobic spray. Feed Bronchosan® herbs for a prolonged period.



Composition

100% thyme, destemmed.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 tablespoons of thyme into the hay daily. You can also make it into a tea.

Analytical constituents:

Crude fibre 15.9%.

Size 1 kg
Item no. 206007

Apfelessig 10%-ig (apple cider vinegar) ¹

For a balanced intestinal environment

Liquid feed supplement for horses

Acetic acid is indispensable for the metabolism, especially that of the fats. It improves the provision of energy. In addition, apple cider vinegar contains all the essential trace elements and is also an ideal means of disinfecting drinking water.

Composition

100% apple cider vinegar, acidity 10%.

Feeding recommendation

Regularly add 1 teaspoon of apple cider vinegar (acidity 10%) to 1 litre of drinking water (pH 7, neutral). For hard water with pH greater than 7, add 2 teaspoons. You can also spray the diluted vinegar, preferably 3 parts water to 3 parts vinegar, over a large portion of hay.

Analytical constituents: Crude protein 0.1%, crude fibre 1%, crude ash 0.22%.

Minerals: Calcium 0.009%, phosphorus 0.013%, sodium 0.013%.



Size 2.5 l
Item no. 202021

To stabilise the in intestinal flora!



Bio-Koriander-Propolis-Öl (organic coriander and propolis oil)

Further details on page 41

Herbazem Forte⁶

For diet-related disorders of the skin metabolism

Feed supplement for horses

Most disorders of the skin are also diet-related, for example, itching, dandruff, sweet itch and mud fever. A bad coat change indicates inadequate dietary care. In most cases this relates to a lack of trace elements in the horse's diet or occurs if it is only fed inorganically. This is typically the case for Icelandic horses. Many horses lack lecithin and silica and have problems with their digestion. Most horses can be helped by optimising their feed. In cases of the aforementioned disorders, always consider treatment with SilyCholin and Lüneburg herbs. Nutritional deficiencies are compensated by Herbazem Forte. The high percentage of choline, betaine and biotin the aromatic bitter herbs contain ensures stable intestinal flora. The micronised seaweed provides all minerals and trace elements in a highly bioavailable form, providing the cells with a better supply. This not only revitalises the skin, but also supports the development of new cells.

Composition

Sunflower lecithin (GMO-free), garlic, soluble seaweed, bitter herbs, pure brewer's yeast, organically-bound sulphur.

Feeding recommendation

Depending on the size of horse, give 1 to 3 scoops of Herbazem Forte daily. 1 scoop = 12 g.



Analytical constituents:

Crude protein 11.1%, crude fats 15.9%, crude fibre 5.1%, crude ash 19.6%.

Minerals: Calcium 0.9%, phosphorus 0.57%, sodium 1.36%.

Technological additives per kg: 160 g of silica precipitated/E551.

Size	Item no.
1 kg	203009
2.5 kg	203010

MycoProtekt^{®4}

Binds mould spores and toxins

Feed supplement for horses

Mycotoxins put a strain on the intestines and metabolism of horses and can lead to life-threatening poisoning. MycoProtekt[®] binds mould and its toxins as well as mould spores in the feed, which are then eliminated without being able to cause any damage.

Composition

Glucmannans from the cell walls of yeast, diatomaceous earth, apple and carrot granules.

Feeding recommendation

0.75 to 1.25 scoops (10 to 20 g), depending on the performance requirements and the size of the horse. Mix MycoProtekt[®] with the stable feed or sprinkle over moistened hay and straw. The scoop holds 15 g.



Analytical constituents:

Crude protein 16.4%, crude fats 9.7%, crude fibre 4%, crude ash 10.6%.

Minerals: Calcium 0.17%, phosphorus 0.7%, sodium 0.35%.

Technological additives per kg: 40 g bentonite montmorillonite.

Size	Item no.
500 g	205005
1 kg	205006

Also important for stomach, intestines and digestion!

EquiBasal[®]

Klostergarten (monastery garden herbs)
Hortus Gemüse- und Früchte-Mischung
(Hortus vegetable and fruit mixture)
and Wildbeeren (wild berries)

Further information on page 5, 8, 11 and 12



What is KPU?

KPU – kryptopyrroluria

More and more horses are being diagnosed with KPU (kryptopyrroluria). Amongst those who recognise this disease are animal naturopaths and alternative therapists, who facilitate the diagnosis of this in their laboratories through urinalysis, and help to treat it.

Veterinarians view this development rather sceptically and tend to deny the existence of KPU, since it is not yet to be found in the textbooks of traditional veterinary medicine.

KPU was first found and investigated in humans, where it is classified as a genetic disorder. In horses, KPU is an acquired metabolic disorder, caused by imbalanced intestinal flora!

The sufferers – both people and horses – lose massive amounts of pyridoxal 5-phosphate (activated vitamin B6 or abbreviated to P5P), zinc and manganese. P5P is needed for about 100 different metabolic reactions in the body, zinc in over 200. Correspondingly, there are also the myriad possible symptoms that can occur. This makes the definition of it as an illness so difficult, as well as its diagnosis.

Dietary measures and special additives help to rebuild the intestinal flora and to supplement the deficient substances.

Read the article on this topic by Dr. med. Christina Fritz online at: artgerecht-tier.de.

KPU Test

To test for KPU (kryptopyrroluria) in horses a urine sample is needed. To collect it, ideally use a larger vessel, which must be absolutely clean.

Then, fill the provided tube at least 3 quarters full with the urine. The tube is coated inside and contains a powder – do not rinse or remove the powder! As the urine can foam in the tube, fill with caution. Under no circumstances pour the foaming sample away.

Insert the well sealed tube into the larger shipping tube.

If your horse receives vitamin supplements or mineral supplements with vitamin B6, discontinue them 5 days before urine collection.

You can order the KPU Test with shipping tubes by phone on +49 (0)6762 963 620.

Item no.
993003

See price list for further details.



Conservation for parasites?

Endoparasites – literally “inside parasites” – live within their host. A distinction is made between blood, tissue and gut parasites. A certain number of different parasites are passed on to foals by mares by ingesting their mother’s droppings.

We may well ask ourselves why nature made it this way, but consider the fact that in humans diseases like neurodermatitis, asthma and allergies are very uncommon in developing nations with poor hygiene and high parasite loads. Allergists are now using pig whipworms for the treatment of humans suffering from chronic inflammatory bowel diseases and food allergies.

No, we are not proposing that intestinal parasites ought to be protected as an endangered species. But anthelmintics – medication against worms – should not be used indiscriminately. They put a strain on the liver and the intestinal flora. If we really have to fight parasites, we should do so as rarely as possible and make use of natural means to stabilise the intestinal environment and strengthen the immune system’s response to parasites. It is worth considering that after using anthelmintics dead worms have to leave the gut, and that decomposition and body poisons burden the metabolism as much as the chemical agents themselves.



Endoparasites

Suspected case of worms? Then best get a stool analysis!

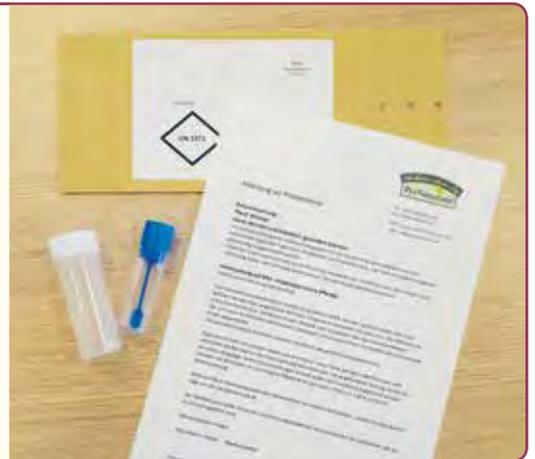
A worming treatment only makes sense if worms are actually present. Even then, you should weigh up if this is using a cannon to shoot sparrows. After all, chemicals used to kill worms damage the intestinal flora and strain the metabolism considerably. A stool analysis, in which the types and the amount of infestations are detected will help you make an informed decision.

Stool analysis for worm infestation

For a parasitological examination it is best to have a sample from 3 consecutive days or defecations, because parasites and their eggs are not excreted equally each time. For the faecal examination, we will send you a sampling tube and a shipping tube, with an envelope addressed to the laboratory and instructions for sampling. You send the sample to the laboratory; the test result is transmitted to PerNaturam. We will forward the result to you, interpret it and advise you on how to proceed.

Item no.
993001

See price list for further details.



Wurmkräuter (worming herbs)

For stable intestinal flora

Feed supplement for horses

Horse's natural food has always included roots, herbs, leaves and fruits, as contained in PerNaturam worming herbs. The composition is derived from nature and contains pungent and bitter substances, aromatics and structures that support a stable intestinal flora and fend off unwanted parasites. This alkalising mixture improves the intestinal environment in favour of a healthy intestinal colonisation.

Composition

Mugwort, rosehip seeds, grated coconut, walnut leaves, pineapple weed, horseradish.

Feeding recommendation

Depending on the size of horse, mix 40 to 70 g of moistened PerNaturam worming herbs into the feed for 5 days. Repeat this after a break of 1 week.

Analytical constituents: Crude protein 12.8%, crude fats 5.2%, crude fibre 24.5%, crude ash 8.9%.

Minerals: Calcium 1.21%, phosphorus 0.28%, sodium 0.03%.



Size	Item no.
1 kg	202004
3 kg	202005
10 kg	202013

Meerrettich (horseradish)

Armoracia rusticana

For intestinal regulation and purification

Feed material for horses

Due to its high proportion of pungent substances, horseradish is germ-inhibiting and regulates the intestines. It revives, revitalises and cleanses the intestines and helps to expel parasites. In late summer, it helps to prevent the onset of gasterophilus. In older horses especially, horseradish provides for a more active metabolism and more flexibility. Combining it with ginger has proven to be particularly effective.



Composition

100% horseradish, cut.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons (10 to 30 g) of horseradish into the feed.

Analytical constituents:

Crude fibre 8.3%.

Size	Item no.
1 kg	206026

Knoblauch-Granulat (garlic granules)

Allium sativum

For blood thinning and repelling insects

Feed material for horses

Very few other plants have a greater disinfecting and discharging potential than garlic. Garlic (*Allium sativum*) improves cell metabolism and stops putrefaction and fermentation processes in the intestines. This changes and intensifies the odour of the horse's sweat, thus helping to repel insects.

Composition

100% garlic, granulated.

Feeding recommendation

Depending on the size of horse, regularly mix 1 to 3 scoops of PerNaturam garlic granules into the food. Best used when soaked. A scoop holds 13 g.

Analytical constituents: Crude fibre 3.1%.



Size	Item no.
1 kg	206021
3 kg	206022

Bio-Löwenzahnsaft (organic dandelion juice)

Bitter substances for the intestines, liver, gall bladder and kidneys

Liquid feed material for horses

Due to its gentle action on the internal organs, dandelion is used to stimulate the liver, gall bladder and kidneys. Its bitter substances regulate the acid-base balance of the intestinal environment and thus create an unpleasant environment for intestinal parasites. Existing parasites are expelled, resettlement is prevented.

Composition

100% organic dandelion juice.

Feeding recommendation

Give 1 to 3 tablespoons daily, depending on the size of horse.

Analytical constituents: Moisture content 97.5%, crude fats 0.1%, crude protein 0.3%, crude ash 0.58%, crude fibre 1%.

Minerals: Calcium 0.03%, phosphorus 0.01%, sodium 0.01%.



Size	Item no.
250 ml	202024
500 ml	202025

Always refrigerate and use within 2 weeks of opening!

Together through thick and thin

In the metabolic pathway of organs, the liver and pancreas take a central role. On the one hand, they digest the incoming food and, on the other hand, they produce enzymes, vitamins and hormones that are vital for the body.

The liver provides for the utilisation of food components, produces essential proteins and stores glycogen and vitamins. It is also responsible for bile production and ensures that metabolic products and foreign substances, such as drugs and toxins, are broken down and excreted. Fat-soluble substances enter the intestines with the bile secretions, and water-soluble substances are filtered out of the blood through the kidneys. When the liver is overwhelmed as an excretory organ, the body seeks emergency solutions to divert harmful substances. These emergency exits' can include the skin, the bronchial mucous membranes or the hooves. That's why we recommend regular liver support for older horses and for horses with recurring metabolic problems. Please refer to our detox plans and let us advise you.

The pancreas releases digestive enzymes into the intestines and produces hormones at the same time, which are mainly used to regulate blood sugar levels. The enzymes protease, amylase and lipase deconstruct proteins, carbohydrates and fats from the food in the intestines so that they can be absorbed by the intestinal mucosa. Insulin and glucagon regulate blood sugar levels.

Today's primarily unbalanced and high-energy diet overwhelms the pancreas of horses. The problem is exacerbated by the fact that most feeds no longer contain any bitter substances, even though it is bitter substances that stimulate the digestive organs and help the pancreas to function properly. The bitter Haronga bark (*Harungana madagascariensis*) in EquiPankrem and the bitter herb mixture HerbaVisceral have proved particularly effective as regulators.



Heparlind®

To stimulate liver function

Feed supplement for horses

Heparlind® is a herbal mixture for the stimulation of liver function. These herbs are indispensable since they are absent from pastures. Metabolic waste, environmental toxins, pesticides, heavy metals, fungal toxins, additives in animal feed, medicines: All these substances must be excreted by the body. This is hard work for the liver. If it is overwhelmed, substances get stored in the body: in tendons, ligaments, connective tissue and in intercellular spaces. This is why a course of treatment to eliminate them from the body is required from time to time. At the same time, kidney activity should be supported with Lüneburg herbs and/or Rhenalind® Nierenkräuter, preferably alternately, so that toxins can be eliminated faster.

Please note: The underside of the leaf of an artichoke is quite hairy. During drying, cutting and mixing, these plant hairs fall off, possibly even forming small fibre balls. Due to the movements during transit, these light hairs gather on top of the mixture. At first, this may give the impression that the product has gone off – this is not the case!

Composition

Artichoke leaves, rosemary needles, yarrow, dandelion leaves with roots, hyssop.

Feeding recommendation

Depending on the size of horse, mix 30 to 70 g of Heparlind® liver herbs into the feed daily, preferably moistened. Feed PerNaturam Heparlind® liver herbs together or in alternation with Rhenalind® by PerNaturam.

Analytical constituents:

Crude protein 9.6%, crude fats 3.8%, crude fibre 21.8%, crude ash 8.8%.

Minerals: Calcium 1.17%, phosphorus 0.2%, sodium 0.29%.

Size	Item no.
500 g	208024
1 kg	208025
3 kg	208026



EquiKPU

In KPU to support the liver and intestinal rehabilitation

Feed supplement for horses

The liver is responsible for ensuring that all waste products and toxins are made harmless and are discharged. It does that in two detoxification steps. For the second stage in the process it needs B vitamins, especially B6 and B12, which are formed in the gut by special intestinal bacteria. If the intestinal flora is disturbed, this causes insufficient production and absorption of B6 and B12, resulting in KPU – kryptopyrroluria. If the shortage of B6 and B12 persists, the substances from the first detoxification step combine with certain minerals, especially zinc, but also selenium, manganese or iron, making them unavailable elsewhere. This results in a cumulative lack of these trace elements. EquiKPU compensates for the deficiency, allowing the liver to work normally again. The best solution is intestinal rehabilitation while compensating for deficits with EquiKPU (for at least half a year).

Composition

Cranberry fruit powder, organic sulphur, sea buckthorn berry powder, sage leaves, liquorice juice, oregano, bishop's weed, neem leaves.

Feeding recommendation

Feed 20 g (2 scoops) of EquiKPU daily, ponies receive half. Due to the increased levels of trace elements compared to complete feeds, EquiKPU must not make up more than 1% of the total daily feed. Therefore, please observe our feeding recommendations!

Analytical constituents:

Crude protein 11.8%, crude fats 3.5%, crude fibre 9.5%, crude ash 8.5%.

Minerals: Zinc as glycine zinc chelate, hydrate 15 000 mg, vitamin B6 5 000 mg, vitamin B12 1 000 mg.

Size	Item no.
600 g	205007
1.8 kg	205008



Leberpellets (liver pellets)

Supports the liver in the case of chronic conditions

Feed supplement for horses

The pellets support the liver, especially in the case of chronic conditions! The milk thistle husk is finely ground to make the silymarin it contains readily available to horses. Combined with other metabolism-activating herbs, this results in our tasty liver pellets. To stimulate liver metabolism and to support the elimination organs, we particularly recommend combining PerNaturam liver pellets with the kidneystimulating herbal mixtures available from PerNaturam.

Composition

Milk thistle husk, agrimony, schisandra seeds, angelica, oregano, turmeric, liquorice root.

Feeding recommendation

Add 30 to 40 g of PerNaturam liver pellets to the feed, preferably over a

four-week period. With ponies and small horses 20 to 30 g suffice. 1 scoop holds 100 g.

Analytical constituents:

Crude protein 16.7%, crude fats 6.5%, crude fibre 17.5%, crude ash 8.1%.

Minerals: Calcium 0.95%, phosphorus 0.5%, sodium 0.04%.

Size	Item no.
1 kg	205009
2.5 kg	205010



Liver & Pancreas

SilyCholin

To support and regenerate the liver

Feed supplement for horses

The liver is constantly working hard, especially if it has to deal with many toxins or foreign substances. These include pesticides, medicines, worming treatment, vaccinations, but also fungal toxins from endophytes or moulds and plant poisons such as from ragwort.

This mixture promotes liver function and activates digestion. The active ingredient complex silymarin, from the seeds of milk thistle, especially stimulates the liver cells and also helps the damaged liver to repair its cells or to form new ones. Eliminated substances can be bound in the intestines by the spirulina algae so they are not reabsorbed again, but excreted (see „Enterohepatischer Kreislauf“ (Enterohepatic Circulation) in our guide „Leber & Nieren“ (Liver & Kidneys), currently only available in German).

Composition

Contains milk thistle seed concentrate (silymarin 10%), pectins, spirulina, turmeric, apple granules, sunflower lecithin (GMO-free), Aztec sweet herb (also plant-based choline, biotin and betaine).

Feeding recommendation

Please read our instructions for elimination and deacidification on pages 37 to 38.

Analytical constituents: Crude protein 11%, crude fats 6.8%, crude fibre 10.3%, crude ash 7.6%.

Minerals: Calcium 0.58%, phosphorus 0.29%, sodium 0.15%.

Size	Item no.
500 g	205001
1 kg	205002



Huf-Fell-Perfekt (hoof-coat-perfect)

For strong hooves and a beautiful coat, with 2,000 mg/kg biotin

Feed supplement for horses

For strong hooves and a beautiful coat. The high proportion of biotin combined with L-methionine (sulphurous amino acid) and other indispensable substances for horn and hair formation ensure a distinct, rapid improvement in the hooves and coat. However, Huf-Fell-Perfekt is far more than a product just for horn formation. The

L-methionine and zinc content causes rapid activation of the metabolism, especially in forming the body's own proteins and activating liver functions.

Composition

Lecithin, brewer's yeast, seaweed, rosehip peel.

Additives

Biotin, vitamin E, folic acid, L-methionine, lysine, silica, zinc, iron, copper, manganese, iodine.

Feeding recommendation

During the horse's change of coat, feed 40 g (4 to 5 scoops) daily for at least 4 weeks, ideally 6. For new hoof horn formation after hoof damage, give 30 g (3 scoops) daily for several months to a year. Here, consistency and duration are important. Due to the increased levels of trace elements compared to complete feeds, Huf-Fell-Perfekt must not make up more than 1% of the total daily feed. Therefore, please observe our feeding recommendations!

Analytical constituents: Crude protein 13.1%, crude fats 13.7%, crude fibre 1%, crude ash 28.1%.

Minerals: Calcium 6.29%, phosphorus 0.51%, sodium 0.53%.

Technological additives per kg: 50 g of silica precipitated/E551.

Nutritional additives per kg: 2,000,000 mcg biotin (D(+)-biotin), 2,000 mg vitamin E, 10,000 mg zinc as glycine zinc chelate, hydrate, 100 mg folic acid, 5,000 mg iron, 1,000 mg copper, 6,000 mg manganese as glycine manganese chelate, 140 mg iodine, 4,000 mg L-methionine, 2,000 mg lysine.



Size	Item no.
1 kg	203002
2.5 kg	203003

MycoProtekt®

To protect and relieve the liver from mould and toxins

Feed supplement for horses

Mycotoxins burden the intestine and metabolism of horses, which in extreme cases can lead to lethal poisoning. MycoProtekt® binds moulds, its toxins and spores in the feed, which are then excreted without being able to do any harm.

Composition

Glucmannans from yeast cell walls, diatomaceous earth, apple and carrot granules.



Size	Item no.
500 g	205005
1 kg	205006

Feeding recommendation

10 to 20 g depending on the contamination of the food and the size of horse. Blend MycoProtekt® with the stable food, or sprinkle it over moistened hay and straw. The scoop holds 15 g.

Analytical constituents: Crude protein 16.4%, crude fats 9.7%, crude fibre 4%, crude ash 10.6%.

Minerals: Calcium 0.17%, phosphorus 0.7%, sodium 0.35%.

Technological additives per kg: 40 g bentonite montmorillonite (1m558).

Bio-Löwenzahnsaft (organic dandelion juice)

Bitter substances for the intestines, liver, gall bladder and kidneys

Liquid feed material for horses

Due to its gentle action on the internal organs, dandelion is used to stimulate the liver, gall bladder and kidneys as well as digestion and to help regulate the intestinal flora. Dandelion is one of the few plants that is well-known. It is very rich in bitter substances, is cholagogic and stimulates the production of gastric and intestinal juices. In addition, dandelion contains plenty of potassium, which is indispensable for saltatory conduction, blood pressure and acid-base balance.

Composition

100% organic dandelion juice.

Feeding recommendation

Give 1 to 3 tablespoons daily, depending on the size of horse.

Analytical constituents: Moisture content 97.5%, crude fats 0.1%, crude protein 0.3%, crude ash 0.58%, crude fibre 1%.

Minerals: Calcium 0.03%, phosphorus 0.01%, sodium 0.01%.



Size	Item no.
250 ml	202024
500 ml	202025

Once opened, keep refrigerated and use within 2 weeks!

For intestinal stabilisation & support of the metabolism



Bio-Curcuma-Myrrhe-Öl (organic turmeric and myrrh oil)

Further details on page 22

HerbaVisceral

Supports the regulation of blood sugar levels

Feed supplement for horses

The starch and sugar-rich feeding of horses often leads to stress on the pancreas and to strong fluctuations in blood sugar levels. If the blood sugar level can no longer be regulated safely, this may result in EMS (equine metabolic syndrome). The tannin and bitter-rich herbs in HerbaVisceral promote the functions of the internal organs, especially the pancreas, and help to regulate blood sugar levels.

Composition

Blueberry leaves, mate leaves, bean husks, goat's rue, olive leaves, knotweed, stinging nettle herbs, chokeberry.

Feeding recommendation

Depending on the size of horse, mix 30 to 50 g of HerbaVisceral into the feed daily (or weekly if alternating with other PerNaturam blends).

Analytical constituents: Crude protein 10%, crude fats 2.9%, crude fibre 25.3%, crude ash 6.2%.

Minerals: Calcium 0.94%, phosphorus 0.15%, sodium 0.01%.



Size	Item no.
500 g	202015
1 kg	202016
3 kg	202017



EquiPankrem

To stimulate the pancreas

Feed supplement for horses

Starch and energy-rich feeding burdens the pancreas. Starch is only needed by horses if intense performance is required. An oversupply means the pancreas increasingly fails to function properly. EMS (equine metabolic syndrome) and Cushing's disease are likely to be the result of incorrect feeding. Special leaves, barks and fruits in EquiPankrem provide important bitter substances, ensure the formation of digestive enzymes and relieve the stressed pancreas.

Composition

Haronga bark, dandelion root, turmeric, rice bran, neem tree, bishop's weed, MSM (methylsulfonylmethane).

Feeding recommendation

Depending on the size of horse or problem, mix 10 to 30 g of EquiPankrem into the feed daily (1 scoop holds 10 g).

Analytical constituents: Crude protein 8.8%, crude fats 4.1%, crude fibre 11.7%, crude ash 9.5%.

Minerals: Calcium 0.96%, phosphorus 0.46%, sodium 0.05%.



Size	Item no.
500 g	205003
1 kg	205004

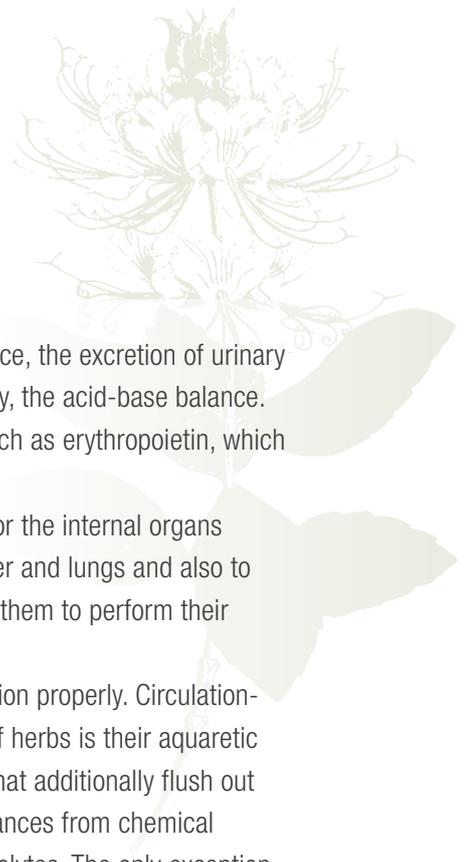
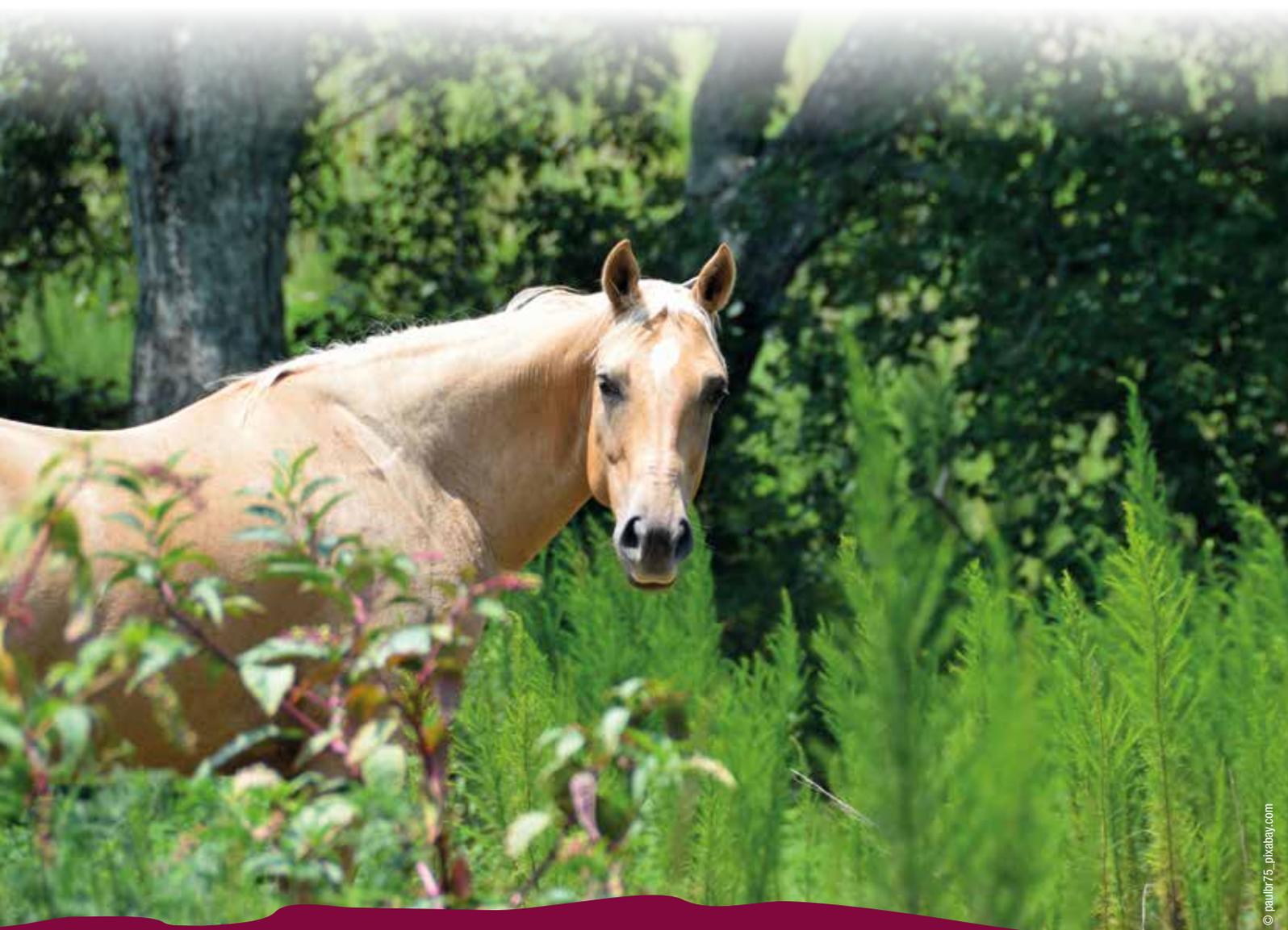


A high performance organ, much more than just “a water filter”

The most important functions of the kidneys include regulation of the water balance, the excretion of urinary substances, the control of blood pressure, the electrolyte balance and, accordingly, the acid-base balance. They perform important tasks in vitamin D metabolism and produce hormones such as erythropoietin, which is important for the development of red blood cells.

On the other hand, the kidneys and their functions are controlled by hormones. For the internal organs to be able to do their job, they need good blood circulation. This applies to the liver and lungs and also to the kidneys where blood pressure is higher than in the rest of the body to enable them to perform their filtration function.

In older horses with circulatory weakness, the kidneys are no longer able to function properly. Circulation-regulating agents help to support the kidneys in these horses. A special feature of herbs is their aquaretic effect. They do not promote fluid excretion in the same way as chemical agents that additionally flush out many electrolytes. The term ‘aquaretics’ is used to distinguish plant-based substances from chemical diuretics. These special herbs increase urine production without the loss of electrolytes. The only exception is sodium chloride, which can be effectively counterbalanced with the use of mineral licks.



Lüneburger Kräuter (Lüneburg herbs)

Supports the digestive and excretory organs

Feed supplement feed for horses

The Lüneburg herbs mixture aims to stimulate the metabolism and to support the digestive and excretory organs, especially the kidneys. It revitalises older horses whose metabolic activity has waned. It is not only medication and environmental toxins that burden horses; imbalances in the feed, preservatives, mould, fungal toxins and commonly oxidised fats all attack the liver and kidneys. By stimulating the liver and the kidneys, we help horses to excrete these substances. This is especially important in winter when horses sweat less and the kidneys have to work harder. For a complete elimination treatment, for example, in cases of laminitis, mud fever, eczema and chronic bronchitis, combine: Sily-Cholin, Lüneburg herbs, Rhenalind® Nierenkräuter and willow bark & meadowsweet. The exact descriptions of our elimination treatments can be found on page 37.

Composition

Birch, blackberry leaves, stinging nettle, anise, horsetail, mugwort, pansy, veronica, goldenrod, angelica, juniper berries, erica blossom.



Feeding recommendation

Herbs should always be used as a feed supplement. Depending on the size of horse, mix 30 to 70 g (1 to 3 handfuls) of PerNaturam Lüneburg herbs with the feed daily. We recommend alternating different PerNaturam feed mixtures – preferably moistened.

Size	Item no.
500 g	207011
1 kg	207003
3 kg	207004
10 kg	207009

Analytical constituents: Crude protein 12%, crude fats 5.6%, crude fibre 23.8%, crude ash 8.9%.

Minerals: Calcium 1.21%, phosphorus 0.27%, sodium 0.06%.

Rhenalind® Nierenkräuter (kidney herbs)

To stimulate weak and damaged kidneys

Feed supplement for horses

For horses whose kidneys are weak or already damaged Rhenalind® provides a particularly gentle, yet stimulating, mixture for better kidney excretion. The kidneys require special support in winter, because horses sweat less. More irritating herbs, such as nettle, juniper or goldenrod, have deliberately not been included. Often, it is necessary to support the liver with Heparlind® liver herbs.

Composition

Birch leaves, couch grass root, orthosiphon, veronica, parsley stalks, restharrow root.

Feeding recommendation

Depending on the size of horse, mix 30 to 70 g Rhenalind® into the feed daily, preferably moistened. Feed Rhenalind® together or in alternation with the liver herbs (Heparlind®) from PerNaturam.

Analytical constituents: Crude protein 11.9%, crude fats 4%, crude ash 23.6%, crude fibre 19.2%.

Minerals: Calcium 0.86%, phosphorus 0.25%, sodium 0.09%.



Size	Item no.
500 g	208027
1 kg	208028
3 kg	208029

Also helpful for the kidneys!



Bio-Löwenzahnsaft (organic dandelion juice)

Further details
on page 33

Petrophagus

Aquatic herbs for flushing the kidneys and bladder

Feed supplement for horses

This aquatic herbal mixture increases the amount of urine produced; this not only ensures better flushing of the kidneys and bladder, but also prevents the build-up of deposits.

Composition

Parsley stems, horsetail, bearberry leaves, goldenrod, watercress, cranberry.

Feeding recommendation

Add 30 to 50 g of Petrophagus herbal mixture to food daily, preferably for a period of four weeks.

Analytical constituents: Crude protein 13%, crude fats 2.5%, crude fibre 17.7%, crude ash 13%.

Minerals: Calcium 1.52%, phosphorus 0.3%, sodium 0.25%.

Size	Item no.
1 kg	208039
3* x 1 kg	*Only for final consumers.



Kidneys

Also helpful
for the kidneys!



**Dezidum®-
Basenpulver**
Further details
on page 23

Brennesselkraut (stinging nettle herbs)

Urtica dioica

For stimulation of the
kidneys and circulation

Feed material for horses

The nettle promotes excretion through the kidneys, especially because of its high potassium content. It also strengthens the circulation and provides the body with many minerals and trace elements, e.g. iron, which supports blood formation. The aquaretic effect cleanses and reduces deposits in the joints.



Size 2 kg
Item no. 206006

Composition

100% stinging nettle, cut.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 handfuls of PerNaturam stinging nettle into the feed daily.

Analytical constituents:

Crude protein 15.3%, crude fats 2.1%, crude fibre 20%, crude ash 14.6%.

Minerals: Calcium 2.75%, phosphorus 0.44%, sodium 0.01%.

Weidenrinde & Mädesüß (willow bark & meadowsweet) *Salix spec. & Filipendula ulmaria*

To support elimination

Feed supplement for horses

Willow bark & meadowsweet contain natural salicylate and phenolic substances that improve the flow of blood, thus promoting both the supply of oxygen and nutrients to the cells as well as the discharge and removal of CO₂. As is well known, salicylates also help relieve pain without burdening the gastric mucosa. Due to the increased flowability of the blood, poorly perfused areas become better supplied and cell metabolism is improved.

Composition

Willow bark & meadowsweet, each 50%.



Size 1 kg
3 kg
Item no. 206016
206028

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of willow bark & meadowsweet into the feed daily for 1 week. Then take a three-day break, before adding it again for 3 days. Continue to feed in this manner for a maximum of 4 weeks.

Analytical constituents: Crude protein 6.3%, crude fats 1.9%, crude fibre 31.8%, crude ash 5.6%.

Minerals: Calcium 1.29%, phosphorus 0.12%, sodium 0.01%.

HerbaCor

To support the heart and circulation

Feed supplement for horses

The heart muscle is constantly in action. The HerbaCor herbal mixture regulates and supports the circulation and improves heart activity, making horses more attentive and active. The HerbaCor herbs are a huge help during changes in the weather, for sluggish and older horses, but also for performance horses. The improved blood circulation reduces oedema, especially swollen legs. With old horses it is best to feed alternately with Seniorsan. Excellent results have been achieved with cold-blooded horses.

Composition

Hawthorn leaves with flowers and fruits, ginkgo, blackberry leaves, rosemary, horsetail, shepherd's purse, lemon balm leaves, rose petals.

Feeding recommendation

Add 30 to 70 g of HerbaCor per horse to the feed daily, preferably moistened.

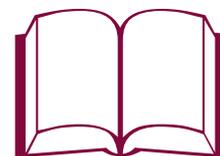


Analytical constituents:

Crude protein 10.8%, crude fats 4%, crude ash 8.9%, crude fibre 19.1%.

Minerals: Calcium 1.59%, phosphorus 0.22%, sodium 0.01%.

Size 500 g
1 kg
3 kg
Item no. 208016
208014
208015



Elimination

The liver is the central metabolic organ. All substances have to pass through the liver. There they are recognised, converted for reuse in the body or broken down into fat-soluble substances to be excreted via the gall bladder and intestines or as water-soluble substances via the kidneys. Our mild detox treatment stimulates the liver and kidneys and helps to remove metabolites from tissues. The more intensive detox treatment activates liver activity particularly effectively; the high silymarin content helps a stressed liver to regenerate.

Our mild detox treatment

The treatment lasts 40 days.

You will need:

- 1 kg Heparlind®
- 1 kg Rhenalind® Nierenkräuter
- 1 kg willow bark & meadowsweet
- 750 g of Dezidum®-Basenpulver
- 900 g EquiZeolon, as needed, for binding the dissolved toxins
- 1 kg of liver pellets, if required, to support the liver cells

How to do it:

1. Alternate about 50 g (a good handful) of Rhenalind® Nierenkräuter and Heparlind® in a 3-day cycle, each about 50 g, over the entire 40 days.
2. In addition (and very important), add about 40 g of willow bark & meadowsweet. Please soak it for 1 hour in about 300 ml of water or pour hot water over it. Feed cooled with the liquid

daily for the first week, then take a break for 3 days, before repeating the 3-day cycle. For binding and eliminating any toxins, we recommend giving EquiZeolon at the same time – 2 full scoops (about 25 g) daily.

You can combine with deacidification, as described above, by adding 20 to 25 g of Dezidum®-Basenpulver daily. However, if this is too much for the horse, then administer the deacidification only before and after the detox treatment: 2 weeks before, and 4 weeks or more after.

For existing liver problems, we recommend supplementing the treatment with liver pellets. This will protect the liver cells and stimulate regeneration. Feed approx. 15 to 20 g daily.

We are happy to support you during this treatment and stay in personal contact. E-mail us or, even better, give us a call!

Our intensive detox treatment

The treatment lasts 40 days.

You will need:

- 500 g SilyCholin
- 1 kg Rhenalind® Nierenkräuter
- 1 kg Lüneburg herbs
- 1 kg willow bark & meadowsweet
- Dezidum®-Basenpulver (depending on the size of horse or number of horses to be detoxified 750 g or 1.5 kg)
- 900 g EquiZeolon

SilyCholin contains 10% of the active ingredient complex Silymarin from the husks of the milk thistle. This is the most effective remedy for the liver, stimulating its activity and also supporting the regeneration of liver cells.

Above all, EquiZeolon has the ability to bind toxins in the intestine that otherwise could become reabsorbed via the enterohepatic circulation.



Elimination & Deacidification

These poisons are bound by the zeolite contained in EquiZeolon and excreted. Rhenalind® Nierenkräuter and Lüneburg herbs stimulate the activity of the kidneys, thus promoting the discharge of water-soluble substances.

How it's done:

1. The horse receives 25 g (2 scoops full) of SilyCholin daily for 10 days, followed by a break of 10 days, before resuming SilyCholin again for a further 10 days.
2. Additionally, every 5 days, alternate between a daily 50 g of Lüneburg herbs and Rhenalind® Nierenkräuter. So for 5 days give one mixture; then, for the next 5 days give the other mixture, for a total of 40 days.
3. Give willow bark & meadowsweet in addition (very important!) You can feed the mixture dry or, preferably,

soak the herbs in water for an hour, or pour about 300 ml of hot water over the herbs (for 2 tablespoons of willow bark & meadowsweet). Then feed cooled with the broth. In addition to the other herbs, give 40 g daily for one week at first, then take a 3-day break and repeat this every 3 days.

4. During the 40 days, also give 2 scoops full of EquiZoolon daily (about 25 g) – well moistened!
You can combine with deacidification, as described above, by adding 25 g Dezidum®-Basenpulver daily. However, if this is too much for the horse, then please do the deacidification treatment before and after the detox treatment: 2 weeks before, and 4 weeks or more after.

With this treatment, personal contact with us is very important. E-mail us or, even better, give us a call!

Never forget to deacidify!

In an acidified organism, microcirculation between cells and extracellular spaces no longer functions correctly due to acid valences H⁺ being present in the cells. Potassium stops being supplied to the cells or only in insufficient amounts. The entire metabolism is disturbed as a result. The basophilic organs – liver and pancreas – cannot work properly and the saliva contains too little sodium bicarbonate, causing further significantly disturbed digestion.

That's why:

Whichever plan you choose, it is best that you always combine it with the deacidification benefits provided by Dezidum®-Basenpulver. You can repeat it again and again regardless of detoxification treatment.

You can order our special information leaflet 'Leber und Nieren' (Liver & Kidneys) free of charge.



We are happy to help!

You can reach us from Monday to Thursday from 8 a.m. to 6 p.m., Friday from 8 a.m. to 5 p.m. and Saturday from 9 a.m. to 12 p.m.

Our consulting team can be reached by e-mail at: beraterteam@pernaturam.de or directly on: +49 (0)6762 963 622 99

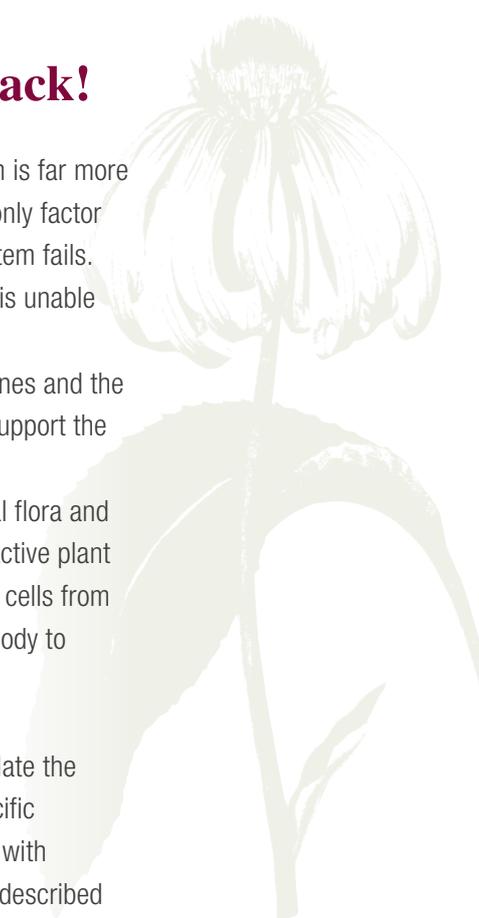
The body is not defenceless, it can fight back!

Being able to tackle germs is essential for a strong immune system. After all, health is far more than the absence of illness or disease – yet, the presence of pathogens is not the only factor to cause illness or disease. Infectious germs only have a chance if the immune system fails. However, no medication can help in the long run if the body's own immune system is unable to regain control.

Germs and pathogens can enter the body via the mucous membranes of the intestines and the respiratory tract. That's why the top priority is to protect mucous membranes and support the immune system!

For this reason, one of the major goals of a balanced diet is to support the intestinal flora and stimulate and regulate the immune system. Herbs and herbal mixtures with many active plant ingredients and antioxidants play an important role in this respect. They protect the cells from free radicals, activate the mucous membranes as protective barriers and help the body to strengthen its own immune response.

Bitter substances from herbs are not only effective in the intestine. They also stimulate the spleen, which works together with the lymphatic system to regulate the body's specific immune defence. Certain herbs help the body to adapt to stress, i.e. to cope better with stressful situations. Many of these adaptogenic plants are included in the mixtures described in this catalogue or are offered as single herbs.



Immune System

Sonnenwend-Immunkräuter (solstice immune herbs)

To stimulate the body's defences

Feed supplement for horses

Sonnenwend-Immunkräuter are traditionally used to strengthen and activate the immune system. They are important in all periods of unusual stress, but especially during sharp changes in weather, during the transition from autumn to winter and then back to spring, in times of exceptional stress, after vaccinations and in cases where there is a general susceptibility to illness. Sonnenwend-Immunkräuter boost the immune system, support blood formation and ensure stable intestinal and skin flora.

Composition

Purple coneflower, thyme, mistletoe, hawthorn, rosemary, verbena, camomile, Siberian ginseng.

Feeding recommendation

Feed Sonnenwend-Immunkräuter either for a limited period of about 4 weeks or alternate with other herbal mixtures. In cases of recognisable immunodeficiency, adding a handful of moistened herbs to the daily feed has proven effective.

Analytical constituents: Crude protein 10.1%, crude fat 3.7%, crude fibre 22.9%, crude ash 7.5%.

Minerals: Calcium 1.31%, phosphorous 0.2%, sodium 0.13%.



Size	Item no.
500 g	208013
1 kg	208001
3 kg	208002

Roter Sonnenhut (purple coneflower)

Echinacea purpurea

For infections, poor performance and before and after vaccinations

Feed material for horses

Echinacea is a traditional Indian herb for strengthening the body's defences, especially during the transitional periods of autumn to winter and winter to spring. Adding purple coneflower to the feed is recommended for unspecified infections, poor performance and especially before and after vaccinations. It helps to prevent overreactions and supports the body's immune response. Purple coneflower combines well with marigold.



Composition

100% purple coneflower (cut herb).

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of PerNaturam purple coneflower into the feed daily, for 1 to 2 weeks.

Analytical constituents:

Crude fibre 28.4%.

Size	Item no.
1 kg	206017

Bio-EchinaHorse (organic)

Pressed juice of adaptogenic herbs to regulate the immune system

Feed supplement for horses

Bio-EchinaHorse creates a triad of herbs, roots and fruits, combining effective American, Asian and European medicinal plants. The pressed juice activates the body's own defences and is also rich in natural antioxidants and vitamin C.

Composition

Purple coneflower, Siberian ginseng, elderberries.



Feeding recommendation

Depending on the size of horse, give 5 to 10 ml, 2 to 3 times a day – preferably using an oral syringe!

Analytical constituents: Crude protein 0.4%, crude fibre 1%, crude ash 0.3%, moisture 98%.

Minerals: Calcium 0.47%, phosphorous 0.06%, sodium 0.04%.

Size	Item no.
250 ml	212008
2* x 250 ml	*Only for final consumers.

Bio-Koriander-Propolis-Öl (organic coriander and propolis oil)

Carminative oil to stabilise the intestinal flora

Feed supplement for horses

Coriander has been used as a spice and medicinal plant for several thousand years. The essential oils, flavonoids and bitter substances, which regulate intestinal activity and inhibit the development of unwanted germs and fungi, are particularly effective. Combining coriander and rapeseed oil is an ancient Indian tradition. In Asia, the leaf is used more as a seasoning herb, whereas in Europe it is mainly the seed. The seed contains 1 to 2% essential oils, while the leaf and root provide only one tenth of this. Hohenlohe coriander is particularly rich in essential oil. Macerated in rapeseed oil from the



Always shake the bottle well before use! Please store in a cool, dark place.

Size	Item no.
250 ml	210011

Hunsrück region in Germany and rounded off with local propolis, this is a regional product with an outstanding effect.

Feeding recommendation

Add 5 to 10 ml to the feed 2 to 3 times a day or give directly to the animal using a pipette or oral syringe.

Composition

Rapeseed oil, coriander (5%), propolis (1%).

Analytical constituents: fat content 98%.

OxyProtekt

Antioxidants – for inflammation as well as physical and mental stress

Feed supplement for horses

Free radicals – highly aggressive molecules that can destroy cells and tissue parts within seconds – are involved in many inflammatory processes and diseases. The cell membranes especially come under attack and, consequently, the mitochondria and the red blood cells. Environmental influences, medication and prolonged excessive demands trigger oxidative stress. Antioxidants are the substances which the body can use to neutralise free radicals. OxyProtekt is particularly rich in concentrated plant-based antioxidants.

Composition

Concentrates of grapeseed, rosehip and apple, sunflower lecithin (GMO-free), spirulina, neem tree, bishop's weed, brewer's yeast, soluble seaweed, organically bound sulphur, sapucaia nut flour, Japanese pagoda tree. It contains the natural ingredients choline, biotin, betaine, oligomeric proanthocyanidin complexes, selenium, vitamin K, B-complex vitamins and folic acid.

Size	Item no.
500 g	212004
1 kg	212005



Feeding recommendation

Depending on the size of horse and problem, feed 10 to 30 g (1 to 3 scoops) daily. OxyProtekt cannot be overdosed. The scoop holds 10 g.

Analytical constituents: Crude protein 15.9%, crude fats 12%, crude fibre 11.2%, crude ash 12.4%.

Minerals: Calcium 0.9%, phosphorous 0.54%, sodium 0.74%.

Schwäbische Alb-Mischung (Swabian Alb mixture)

Herbal mixture to strengthen the bronchi and the immune system

Feed supplement for horses

The Swabian Alb mixture contains the robust plants typically found on chalk heath and juniper heath grasslands. Many southern horse breeds are used to similar soils and herbal mixtures because of their origin. This makes the Swabian Alb mixture the right species-appropriate supplement for them. The combination of herbs balances nutritional disorders of the metabolism and helps to activate the body's own immune system, especially in the bronchial region. The Swabian Alb mixture is recommended for non-specific, dry coughs and allergic reactions to dust as well as during convalescence.

Composition

Sage, St. John's wort, hawthorn, thyme, oregano, agrimony, lady's mantle, chicory, veronica, juniper, centaury, mint, camomile, sloe blossom.



Size	Item no.
500 g	207010
1 kg	207005
3 kg	207006
10 kg	207021

Feeding recommendation

Herbs should always be used as a feed supplement. Depending on the size of horse, mix 30 to 70 g (one to three handfuls) of PerNaturam Swabian Alb mixture into the feed daily. Or better still, feed the various PerNaturam mixtures alternately – preferably moistened.

Analytical constituents:

Crude protein 9.7%, crude fats 4.3%, crude fibre 23%, crude ash 7.2%.

Minerals: Calcium 1.23%, phosphorous 0.23%, sodium 0.02%.

Immune System

Klostergarten (monastery garden herbs)

For an active metabolism and good digestion

Feed supplement for horses

The Klostergarten herbal mixture brings the variety of a healthy meadow or pasture to the feeding trough! By herbal variety, we mean numerous secondary plant substances, important enzymes and many natural antioxidants, which wild horses constantly consume throughout the changing seasons. Klostergarten contains 28 aromatic and medicinal herbs to enrich the daily feed.

The various herbs ensure stable intestinal flora, a healthy metabolism and regulate the acid-base balance. The stimulating effect is evident, for example, in a beautifully glossy coat.

Composition

Horsetail, anise, arnica, birch leaves, veronica, fennel, lady's mantle, rosehip, camomile, mullein, coriander, caraway, bedstraw, lime blossom, dandelion, wild marjoram, mint, nettle, marigold, yarrow, pansy, ribwort plantain, thyme, verbena, knotweed, willowherb, hawthorn, lemon balm.

Feeding recommendation

Add approx. 50 to 70 g of Klostergarten to your horse's feed daily, preferably moistened.

Analytical constituents: Crude protein 11.7%, crude fats 7%, crude fibre 25.8%, crude ash 8.1%.

Minerals: Calcium 1.15%, phosphorous 0.27%, sodium 0.12%.



Size	Item no.
500 g	207012
1 kg	207001
3 kg	207002
10 kg	207022

Ägyptischer Schwarzkümmel (Egyptian black cumin)

Nigella sativa

For the mucous membrane immune system

Feed material for horses

Egyptian black cumin is an ancient medicinal and spice plant that has been used since the time of the Pharaohs. Horses love its spicy flavour. Above all, black cumin seed is appreciated for its positive effect on the mucous membranes and intestinal flora.

Composition

100% Egyptian black cumin seeds (*Nigella sativa*).

Feeding recommendation

Depending on the size of horse and problem, mix 1 to 3 heaped tablespoons of ground black cumin seeds into the feed daily, for one to two weeks.

Analytical constituents:

Crude fibre 5.5%.



Size	Item no.
1 kg	206018
3 kg	206019

For bacteria and fungi

Kolloidales Silberwasser (colloidal silver water) 50 ppm



Find further details on page 59

Hagebutten (rosehips) – whole or crushed

Rosa canina

For the supply of vital substances

Feed material for horses

Rosehips are rich in vitamins C, K, beta-carotene and antioxidants. They also make a healthy, tasty treat. As research in Denmark has shown, they also help to rebuild tendons and articular cartilage. You can find further information on this product in the Musculoskeletal System section.

Feeding recommendation

Depending on the size of horse, mix a heaped table-spoon to a handful of rosehips with the feed every day, or give a few every now and then as a treat.

Analytical constituents:

Crude fibre 38.1/35.9%.



Rosehips crushed

Size **Item no.**

2 kg 206025

6 kg 206030

Rosehips whole

Size **Item no.**

2 kg 206004

6 kg 206029

Wildbeeren (wild berries)

Berry mixture rich in vitamins – especially for autumn and winter

Feed supplement for horses

Berries are a staple part of a horse's diet. This makes wild berries a valuable feed supplement for horses, adding the abundance of autumn to their feed.

Wild berries provide the body with many nutrients and vital substances, including vitamins C, K and beta-carotene. The pectins from the fruits protect the intestinal mucosa.

Composition

Rosehips with seeds, blueberries, elderberry berries, barberries, blackcurrants, sea buckthorn berries, rowan berries, juniper berries, hawthorn berries.

Feeding recommendation

In winter, mix a handful into the feed every day.

Analytical constituents: Crude protein 5%, crude fats 6.1%, crude fibre 22.6%, crude ash 3.7%, moisture 12.1%.

Minerals: Calcium 0.54%, phosphorous 0.15%, sodium 0.003%.

Size **Item no.**

1 kg 206023

3 kg 206024



Ringelblume (marigold)

Calendula officinalis

Cares for the mucous membranes and promotes balanced intestinal flora

Feed material for horses

The marigold is traditionally one of the most important medicinal plants there is and has been well researched. Although it is well known for its excellent nourishing effect on the skin, it also has exactly the same effect on the inside! It is rich in essential oil, contains saponins, carotenoids, flavonoids, bitter substances and mucilages.

Marigold cares for the mucous membranes in the stomach and intestines, has a positive effect on the liver and gall bladder, promotes balanced intestinal flora and nourishes the skin. It has also been shown to be effective against flagellates such as trichomonads.

Composition

100% marigold flowers with calyxes.

Feeding recommendation

Depending on the size of horse, mix a handful (approx. 20 to 25 g) of PerNaturam marigold with the feed every day. For irritated and itchy skin, we recommend washing with a marigold infusion.

Analytical constituents:

Crude fibre 12.6%.

Size **Item no.**

500 g 206012



The cardiovascular system – the body's life engine

The heart, along with the lungs, is the most active organ in the body. It works non-stop – it is the vital engine maintaining life.

Good circulation is imperative for all organs to be able to work properly. This is especially true for the liver and lungs. It also applies to the kidneys, which have a higher blood pressure than the rest of the body, since this is the only way the kidneys can perform their filtration.

Blood circulation in the body is not only about supplying the cells with nutrients, hormones, water or oxygen; it is also about removing metabolic products and regulating temperature. We can clearly see the crucial role of the heart in older animals with weak circulation, where all metabolic functions start to deteriorate. Stimulating the circulation can therefore provide a significant boost to the vitality of older horses.

The heart of a riding horse with a body weight of 600 kilos beats 30 to 40 times per minute at rest, while pumping 40 to 50 litres of blood through the body. During periods of exertion, the heart rate increases to 110 to 250 beats per minute, while as much as 250 to 300 litres of blood may be pumped a minute. In humans, the heart pumps just under 4.5 to 5 litres of blood per minute during rest periods, and up to 20 litres of blood per minute during periods of exertion – this is even more for trained competitive athletes. The circulatory functions are not only dependent on the pumping activity of the heart. A crucial factor in the transport of blood to the body peripheries and for an uninterrupted blood flow back to the heart is intact blood vessels.



**Contact our consultants
on the direct number
+49 (0)6762 963 622 99**

HerbaCor

Support for the heart, circulation and blood flow

Feed supplement for horses

The heart muscle is constantly in action. The HerbaCor herbal mixture regulates and supports the circulation and improves heart activity, making horses more attentive and active. The HerbaCor herbs are a huge help during changes in the weather not only for sluggish and older horses, but also for performance horses. The improved blood circulation reduces oedema, especially swollen legs. With older horses it is best to feed alternately with Seniorsan. Excellent results have been achieved with cold-blooded horses.

Composition

Hawthorn leaves with flowers and fruits, ginkgo, blackberry leaves, rosemary, horsetail, sweetheart cabbage, lemon balm leaves and rose petals.

Feeding recommendation

Add 30 to 70 g of HerbaCor per horse to the feed daily, preferably moistened.

Analytical constituents: Crude protein 10.8%, crude fats 4%, crude ash 19.1%, crude fibre 8.8%.

Minerals: Calcium 1.59%, phosphorous 0.22%, sodium 0.01%.

Size	Item no.
500 g	208016
1 kg	208014
3 kg	208015



Bio-CrataeHorse (organic)

Pressed juice of hawthorn leaves with blossom, mistletoe and rosemary

Feed supplement for horses

Bio-CrataeHorse combines effective plants that are traditionally used to support the heart and circulation. This combination strengthens the heart muscles, regulates circulation, improves blood flow to the organs and stimulates the immune system. Bio-CrataeHorse is for animals with high performance requirements and for older animals.

Composition

Hawthorn leaves with blossom, mistletoe, rosemary.



Feeding recommendation

Depending on the size of horse, feed it 5 to 10 ml two to three times a day.

Analytical constituents: Crude protein 0.4%, crude ash 0.2%, moisture 98%.

Minerals: Calcium 0.28%, phosphorous 0.002%, sodium 0.03%.

Size	Item no.
250 ml	210012
2* x 250 ml	*Only for final consumers.

Weidenrinde & Mädesüß (willow bark & meadowsweet)

Salix spec. & Filipendula ulmaria

Promotes blood flow

Feed supplement for horses

Willow bark and meadowsweet contain natural salicylates that improve blood flow; this not only improves the supply of oxygen and nutrients to the cells, but also helps to remove CO₂.

Salicylates are also known to relieve pain without affecting the gastric mucosa. The improved blood flow supplies the areas with poor blood better and improves cell metabolism.

Composition

Willow bark and meadowsweet, 50% each.



Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of willow bark & meadowsweet into the feed daily for a week. Then take a 3-day break, followed by 3 more days of adding it to the feed. Continue feeding like this for a maximum of four weeks.

Analytical constituents: Crude protein 6.3%, crude fat 1.9%, crude fibre 31.8%, crude ash 5.6%.

Minerals: Calcium 1.29%, phosphorous 0.12%, sodium 0.01%.

Size	Item no.
1 kg	206016
3 kg	206028

Circulation & Blood Supply

Ginkgo

Ginkgo biloba

Promotes circulation and strengthens the blood vessels

Feed material for horses

Ginkgo is a well-studied plant that improves blood circulation in a gentle and effective way. Ginkgo leaves are an alternative to willow bark and meadowsweet.

Ginkgo protects the blood vessel walls and the red blood cells with its antioxidant effect. It thus promotes blood circulation in the entire periphery through to the finest vessels of the skin, hooves, brain and internal organs. Ginkgo is therefore often given in addition to other herbs to ensure that their ingredients more effectively reach where they are needed most.



Composition

100% ginkgo leaves, cut.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of PerNaturam ginkgo leaves into the feed daily, for 1 to 2 weeks.

Analytical constituents:

Crude fibre 13.7%.

Size Item no.

1 kg 206015

Sanguina

Supports blood formation

Feed supplement for horses

Anaemia due to a lack of iron is typically caused by a poor diet, manifesting in a weakened immune system and impaired performance; shortness of breath can often be observed. The iron-rich herbs in Sanguina provide the iron compounds necessary for blood formation. Sanguina is particularly important for red blood cells or a low haemoglobin count – as ascertained from blood test results: more haemoglobin, more oxygen, better deacidification, better performance. To optimise the mineral supply, add Orgamin® or seaweed powder to the feed. Another important source is the Hortus vegetable mix. We recommend using HerbaCor in parallel to strengthen the circulation.

Composition

Horehound, agrimony, blackberry leaves, verbena, hemp agrimony, thyme, fennel, elderberries, tormentil, Siberian ginseng, rowan berries.



Size Item no.

500 g 208033

1 kg 208034

3 kg 208035

Feeding recommendation

Add 30 to 50 g of Sanguina per horse to the feed daily, preferably moistened. Sanguina herbs are either given for a certain period, around 4 weeks, or alternated or even combined with other PerNaturam herbal mixtures, such as the Immunkräuter (immune herbs) or the HerbaCor mixture.

Analytical constituents:

Crude protein 9.4%, crude fats 5.8%, crude fibre 27.8%, crude ash 6.5%.

Minerals: Calcium 1.07%, phosphorous 0.23%, sodium 0.03%.

Hagebutten (rosehips) – whole or crushed

Rosa canina

For the supply of vital substances

Feed material for horses

Rosehips are rich in vitamins C, K, beta-carotene and antioxidants. They also make a healthy, tasty treat. As research in Denmark has shown, they also help to rebuild tendons and articular cartilage. They contain a special substance, galactolipid (GOPO), which reduces sensitivity in the case of joint pain and arthrosis and improves suppleness of movement. Regular feeding of rosehips also ensures better blood circulation of the capillaries and especially of the hoof corium. The best results are achieved by adding lecithin with silica and willow bark & meadowsweet from PerNaturam at the same time.

Feeding recommendation

Depending on the size of horse, mix a heaped tablespoon to a handful of rosehips with the feed every day, or give a few every now and then as a treat.

Analytical constituents: crude fibre 35.9–38.1 %.



Rosehips crushed

Size Item no.

2 kg 206025

6 kg 206030



Rosehips whole

Size Item no.

2 kg 206004

6 kg 206029



So, where do all these herbs actually come from?

Germany is the most important hub in the European herbal market. Franconia, Bavaria, Thuringia and the Harz Mountains are the traditional regions for growing and collecting herbs, and pharmacists used to carry their goods from these regions across the continent on their backs. Today, many herbal companies that operate globally are headquartered in these regions.

We mainly purchase herbs that meet the requirements of the European Pharmacopoeia. In order to be used as animal feed, additional tests are necessary, e.g. for dioxin.

PerNaturam processes about 150 species of herbs; the majority of these come from traditional wild collections, which make up about 60% of the species used. They include veronica, lichen, leaves, caraway, mistletoe and many berries, but also other special varieties which cannot be cultivated.

The main areas of collection are the Baltic States, the Czech Republic, Poland and the Balkans. There is no better way than to use plants that grow in their natural habitat. They are still collected in Germany, including in the Hunsrück region.

Cultivated herbs include those with very short harvest phases, requiring particularly gentle drying. These are herbs rich in essential oils, flowers or sensitive leaves and other plants that have to be dried quickly as they would otherwise spoil. Cultivated plants include plantain, lemon balm and mint, but also horsetail to ensure prevent confusion with the poisonous marsh horsetail during collection.

Marigolds are cultivated in Egypt and Turkey, the intensive sunlight guaranteeing better plant quality. In Germany, major crops of mint, oregano and sage are grown.

We make use of the entire market to secure a permanent supply and ensure diversity within our herbal blends. We have been working with our wholesalers and chemists for over thirty years, we know their businesses, how they work, store and mix their products and what quality controls they carry out.

All herbs are tested batch-wise for spray agent residues, heavy metals, active substance content and germ contamination. Although no sprays are used in the cultivation of medicinal plants, these batches are also subjected to random testing. The minimum prerequisite is that the herbs and vegetables comply with food standards.

When purchasing herbs, their colour, smell and taste are always important to us, because this is what determines quality and acceptance. Our suppliers send us product samples and laboratory analyses at harvest time. After careful testing, we then conclude the contracts for the coming year so that we can guarantee you a reliable supply.

By the time the products arrive at your premises, they will have been subjected to a variety of quality controls – both at our suppliers and in our company. This means that the supply chain can be traced back to the field or collection region, allowing us to offer you particularly high-quality, safe products and support for your horse according to its individual needs.

We will be happy to help you and your horse.

Creatures of nature and the wind

The lungs and heart never rest, but work tirelessly in harmony.

The tissue of the lungs is divided into the respiratory bronchi and the alveoli. The inhaled air passes through the trachea into the two main bronchi, each of which leads into one of the two lungs from where they continue to branch out. The air is circulated throughout the bronchi, where foreign bodies, dust, spores and pathogens collect, adhering to the viscous mucous produced by the bronchial mucosa.

Horses are creatures of nature and the wind. Their bronchi are quickly overtaxed by dust pollution, especially fungal spores. Mucous-forming and expectorant herbs ensure that more bronchial secretion can be produced, the mucous drains better or stubborn mucous can be coughed up more easily. Inhaling essential oils can also support lung function. Essential oils increase the ciliary beat frequency in the bronchial tubes, thus transporting dust and foreign bodies out of the bronchial region more quickly and improving gas exchange. This gas exchange takes place in the heavily perfused mucous membranes of the alveoli: carbon dioxide from the blood is exhaled; oxygen from the air is absorbed into the bloodstream.

If insufficient CO₂ is exhaled, the horse's body will become acidic, which may lead to chronic obstructive bronchitis. Accordingly, unimpeded oxygen uptake and CO₂ exhalation are essential for the performance and vitality of your horse. In other words, it pays to avoid dust pollution and to support the bronchial mucosa in their work.



Schwäbische Alb-Mischung (Swabian Alb mixture)

Herbal mixture to strengthen the bronchi and the immune system

Feed supplement for horses

The Swabian Alb mixture contains the robust plants typically found on chalk heath and juniper heath grasslands. This combination of herbs balances nutritional disorders of the metabolism and helps to activate the body's own immune system, especially in the bronchial region. The aromatic mixture has a particularly positive effect on the mucous membranes, especially those of the respiratory tract, as well as stimulating the immune system. The Swabian Alb mixture is recommended for non-specific, dry coughs and allergic reactions to dust as well as during convalescence.

Composition

Sage, St. John's wort, hawthorn, thyme, oregano, agrimony, lady's mantle, chicory, veronica, juniper, centaury, mint, camomile, sloe blossom.



Size	Item no.
500 g	207010
1 kg	207005
3 kg	207006
10 kg	207021

Feeding recommendation

Herbs should always be used as a feed supplement. Depending on the size of horse, mix 30 to 70 g (one to three handfuls) of PerNaturam Swabian Alb mixture into the feed daily.

Analytical constituents:

Crude protein 9.7%, crude fats 4.3%, crude fibre 23%, crude ash 7.2%.

Minerals: Calcium 1.23%, phosphorous 0.23%, sodium 0.02%.

Bronchosan®

Herbal mixture for bronchial action

Feed supplement for horses

Bronchosan® contains herbs rich in essential oils and antioxidants that act on the mucous membranes and especially have an effect on the respiratory tract. Bronchosan® promotes the liquefaction of mucous, making it easier to cough up.

Composition

Ribwort plantain, marshmallow root, fennel, thyme, mullein blossom, Icelandic moss, lime blossom.

Recommendations for use

Bronchosan® herbs are given for a certain period – 50 to 70 g of moistened herbs mixed into the feed every day has proved beneficial. If you use the herbs to make an infusion and let them steep for 5 to 10 minutes, the effect will be intensified. If problems persist, alternate with Swabian Alb mixture. Always add Aerob oil and Aerob spray and, in the case of deep-seated mucous, EquiLichmet from PerNaturam.



Size	Item no.
500 g	208010
1 kg	208003
3 kg	208004

Analytical constituents: Crude protein 10.5%, crude fat 3.4%, crude fibre 22%, crude ash 8.9%.

Minerals: Calcium 1.38%, phosphorous 0.23%, sodium 0.11%.

EquiLichmet

For freeing airways and soothing dry coughs

Feed supplement for horses

Icelandic moss, apple cider vinegar and lime blossom honey are traditionally used to loosen mucous and free the airways.

Composition

Concentrate from Icelandic moss using apple cider vinegar base with lime blossom honey.

Feeding recommendation

Depending on the size of horse and problem, give 1 to 3 tablespoons (10 to 30 ml) of EquiLichmet several days in a row.

Analytical constituents: Crude protein 1%, crude fats 0.5%, crude ash 2%, moisture 96.3%.



Size	Item no.
500 ml	201001

Minerals: Calcium 0.02%, phosphorous 0.01%, sodium 0.71%.

Airways

Bio-Expectorant (organic)

Expectorant plant juice

Feed supplement for horses

PerNaturam organic Expectorant has a positive effect on the mucous membranes of the respiratory tract, which naturally stops or prevents stubborn mucous build-up. The effects of the traditional cough herbs in the organic Expectorant pressed juice complement each other perfectly and have phyto-biotic properties.

Composition

Pressed juice of thyme herb (*Thymus vulgare*), oxlip root (*Primula veris*, *P. eliator*), liquorice root (*Glycyrrhiza glabra*).



Feeding recommendation

Depending on the size of horse, feed it 5 to 10 ml two to three times a day. It is most effective when the juice is administered using an oral syringe.

Analytical constituents: Crude protein 0.5%, crude ash 0.3%, moisture 98.5%.

Minerals: Calcium 0.33%, phosphorous 0.08%, sodium 0.06%.

Size	Item no.
250 ml	201005
2* x 250 ml	*Only for final consumers.

Spitzwegerich (ribwort plantain)

Plantago lanceolata

For bronchitis

Feed supplement for horses

Ribwort plantain is traditionally used in the treatment of bronchitis. It loosens the mucous in the bronchi, has an antibacterial effect and strengthens the immune system. It also cleanses the blood and regulates the intestine. When used as a cold infusion or as a dry herbal feed, ribwort plantain has a slightly antibiotic effect. Infused with warm (not boiling) water, it helps with bronchial mucous. Important supplements to help with deep-seated mucous are EquiLichmet, Aerob oil and Aerob spray.

Composition

100% ribwort plantain leaves, cut.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of PerNaturam ribwort plantain into the feed daily, for 1 to 2 weeks.

Analytical constituents: Crude fibre 12.6%.



Size	Item no.
1 kg	206014



Isländisch Moos (Icelandic moss)

Cetraria islandica

Expectorant for inflammation in the mouth and respiratory tract

Feed material for horses

Icelandic moss is a traditional medicinal plant that is mainly used for respiratory and lung problems. It contains lichen acids with antibiotic effects.

The lichen acids are effective against inflammation in the mouth and airways, but also in combatting problems in the intestinal area. Its high mucilage content helps to loosen stubborn mucous and encourage expectoration. Icelandic moss combines well with Aerob oil, Aerob spray and Bronchosan® herbs from PerNaturam. EquiLichmet contains an Icelandic moss concentrate.

Composition

100% Icelandic moss.

Size	Item no.
500 g	206001

Feeding recommendation

Depending on the size of horse, mix 20 to 30 g of PerNaturam Icelandic moss into the feed daily. For acute conditions and very persistent bronchial problems, boil the Icelandic moss. Feed the boiled moss (lichen) cooled, as it contains 20 to 30% of the active ingredients.

Analytical constituents:

Crude fibre 13%.



Ägyptischer Schwarzkümmel (Egyptian black cumin)

Nigella sativa

**For care of mucous membranes:
bronchi, intestine and genital tract**

Feed material for horses

Black cumin is an ancient medicinal and spice plant that has been used since the time of the Pharaohs. Horses love its spicy flavour. Above all, black cumin seed is valued for its positive effect on the mucous membranes and intestinal flora.

Composition

100% Egyptian black cumin seeds (*Nigella sativa*).

Feeding recommendation

Depending on the size of horse and problem, mix 1 to 3 heaped table-
spoons of ground black cumin seeds into the feed daily, for one to two weeks.

Analytical constituents: Crude fibre 5.5%.



Size	Item no.
1 kg	206018
3 kg	206019

Thymian (thyme)

Thymus vulgaris

Highly effective germicide; used to clear airways

Feed material for horses

Thyme is a tried and tested traditional remedy for freeing airways. A lesser known fact is that it has a strong germicidal effect.

It is increasingly used as an alternative to antibiotics. Due to the high content of essential oils, thyme is effective in both the bronchial and digestive areas. It is particularly recommended for colic. Thyme also expels parasites from the intestine. In the case of respiratory problems, especially deep-seated mucous, use EquiLichmet, Aerob oil and Aerob spray. Feed Bronchosan® herbs for a prolonged period.

Composition

100% thyme, destemmed.



Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of thyme into the hay daily. You can also make it into a tea.

Analytical constituents:

Crude fibre 15.9%.

Size	Item no.
1 kg	206007

Süßholzwurzel (liquorice root)

Glycyrrhiza glabra

**Soothes the mucous membranes in the
respiratory and digestive systems**

Feed material for horses

Liquorice root is an effective antioxidant that is used to soothe mucous membranes in the digestive and respiratory tracts. It contains more than 40 different flavonoids.

Liquorice root soothes the gastric and intestinal mucous membranes, but also bronchial tubes that are under attack. It has been shown to have an antibacterial and antimycotic effect. Its anti-inflammatory and antispasmodic effect has also been clinically proven. For gastric and intestinal problems, especially stomach ulcers, intensify the effect with PerNaturam's anise-caraway-fennel.

Composition

100% liquorice root, cut.



Feeding recommendation

Depending on the size of horse, add 1 to 3 tablespoons of PerNaturam liquorice root to ½ litre of water and simmer gently for 15 minutes. Mix the boiled liquorice root and the cooled brew into the feed.

Analytical constituents:

Crude fibre 20.1%.

Size	Item no.
1 kg	206005

Airways

Herbst-Kräuter-Paket (autumn herbal pack)

Feed supplement for horses

Three strong herbal mixtures for the entire immune system, especially the bronchi, caring for and clearing the respiratory tract in acute situations:

Sonnenwend-Immunkräuter (solstice immune herbs)

Bronchosan®

Schwäbische Alb-Mischung (Swabian Alb mixture)

The pack contains 1 kg each of the mixtures. Only supplied to final consumers.



Size 3 x 1 kg
Item no. 250000

Aerob-Öl (aerob oil)

For clearing the airways and improving breathing

Aerob oil contains 13 different natural and bronchial active essential oils of the highest quality. This helps the horse to breathe and cough up phlegm more easily.

Composition

Pure essential oil blend.

Recommendations for use

Sprinkle a few drops in the stall in the evening or apply a few drops to the noseband. Most horses will not mind you putting two or three drops between their nostrils. Most horses love getting a piece of rusk or apple with a few drops of Aerob oil.



Size 25 ml
50 ml
Item no. 201004
201002

Aerob-Spray (aerob spray)

For clearing the airways and improving breathing

It contains the same 13 essential oils as our Aerob oil but diluted so that it can easily be sprayed into the air. This only makes sense, of course, if the horse is in a stable at night. Aerob spray can also be sprayed on the hay. This helps the horse to breathe and cough up phlegm more easily. It is most effective when used as a fine spray.

Composition

Alcohol 50% volume, pure essential oil blend.

Recommendations for use

Spray in the air, on walls or hay.



Size 250 ml
Item no. 201003

Transformin

The odour neutraliser

If horse manure is left lying, e.g. in bedding, ammonia and butyric acid start forming. Not only do they have an extremely unpleasant smell, but they are also dangerous for the horse's respiratory system and can cause choking fits. Many horses suffer from these kinds of problems, and ammonia and butyric acid may be causing them. Ammonia and butyric acid also attack the hoof horn. All natural substances have what are known as decomposers, i.e. specialised bacteria that neutralise mouldy-smelling organic compounds with the help of enzymes. Transformin contains one of these bacterial mixtures, which was specially developed for PerNaturam.



Application

Dilute Transformin 1:10 to 1:15 and spray on box floors, paddocks, grazing lands that are heavily contaminated with urine or faeces and on manure heaps. Spray directly onto horse manure, but also onto dog faeces and in other places used for defecation. Before replacing litter in cat litter trays, spray the bottom of the tray first. When washing covers, blankets, hay nets, cushions and toys, add three tablespoons to the wash cycle and wash at 40 °C.

Use biocides safely and please always observe the instructions for use!

Size 1 l
Item no. 220001



Herbs and essential oils for the respiratory tract

Being creatures at one with nature and the wind, horses are not at all equipped to cope with musty stable air or dust and spores from litter, hay or straw. This is why open, draught-free stables

are so important for horses, even in winter. Temperatures around zero degrees Celsius do not bother horses at all; in fact, most horses feel very comfortable in these temperatures.

When we consider the breathing volume of a horse, it becomes quite clear why dusty or otherwise polluted air can quickly lead to health problems.

At rest, a horse breathes 30–90 litres of air per minute; when trotting or galloping the air flow in the lungs is from 1,000 litres to over 2,000 litres per minute (riding horse 600 kg). Numerous herbs, which used to be eaten daily in pastures and hay, are able to dilate bronchial vessels, relieve cramps and liquefy stubborn mucous. How can a handful of herbs in the feed have such an intensive effect on the bronchial mucous membranes? This is where

the Nervus vagus comes into play, the “vagabonding nerve”, which connects the brain and the internal organs as the tenth brain nerve. Some essential oils are already absorbed in the stomach; mucous-forming and antispasmodic substances pass through the intestinal mucosa and trigger direct reflexes in the bronchi via the Nervus vagus.

Essential oils can be sprayed into the stall, onto walls or even sprayed onto hay. Their germicidal effect purifies the air, the bronchial vessels dilate, and the mucous and dust adhering to the bronchial mucosa are loosened and eliminated more quickly.

If essential oils are used as a body rub, they must be diluted beforehand with a fatty oil acting as a carrier oil, e.g. black cumin oil, hemp oil or olive oil. The carrier oil prevents the essential oils from evaporating too quickly, ensuring that their active ingredients are absorbed by the skin gradually.

Inhaling essential oils has a fast and immediate effect; inhalations with saline solutions can also have a calming effect on the irritated and swollen mucous membranes and make breathing easier.



Mint
(*Mentha spicata*)



Thyme
(*Thymus vulgaris*)



Oregano
(*Origanum vulgare*)

Skin, coat and hooves reflect the general state of health

The skin and coat envelop the entire body. As all-encompassing organs, they reflect the overall state of health and provide an indication of the nutritional state of the horse. Therapists can draw valuable conclusions about nutritional status and health from the condition of the skin, and the structure and quality of the coat. A hair analysis can even determine the nutrient supply, especially of minerals and trace elements, but also exposure to toxins.

For horses, hooves are of fundamental importance to their health; they must bear the horse's weight and cushion the impact of every step or jump in order to prevent permanent damage to the joints. As a flight animal, the quality of the hooves is decisive for the survival of the horse; for work and riding horses, sturdy hooves are an essential selection criterion in breeding. Skin, coat and hooves therefore reflect the general state of health.

This leads us back to our holistic view. Problems such as scaly skin, eczema, a dull coat, poor pigmentation and hair loss are also indications of disturbed intestinal flora, metabolic problems, or an unbalanced diet. In most cases, one causes the other – in other words, a vicious circle that has to be broken. Older horses with a slower metabolism can exhibit skin and coat problems even when fed well. In this case, a supply of all nutrients for horn and coat formation is necessary. This relieves the metabolism, especially the liver. In addition to minerals, trace elements and vitamins, the sulphurous amino acid L-methionine is essential for horn formation and must be consumed with the daily feed. During or after the change of coat, detoxification is recommended, which additionally helps to boost vitality and improve metabolism. This is also particularly important for horses with eczema and other skin, coat or hoof problems.



Lecithin mit Kieselerde (lecithin with silica) with 60% lecithin and 40% silica

For cell growth, regeneration, performance and beauty

Feed material for horses with additives

Lecithins are the building blocks of all cell membranes and thus a prerequisite for cell formation and regeneration. Silica, i.e. silicon, is found everywhere in bones, cartilage, connective tissue, horn and synovial fluid. Lecithin is indispensable for the construction of all cell membranes and consequently all cells and the nerve sheaths. Silica (silicon) is needed by the body to form synovial fluid and to build bones, cartilage, tendons, ligaments and horn. Pregnant mares and foals in particular, but also performance horses, have a significantly greater need for lecithin. In the case of tendon and ligament damage, this combination promotes tissue regeneration, often surprisingly quickly and sustainably.

Composition

Sunflower lecithin (GMO-free).

Feeding recommendation

It is recommended that horses under strain or those with tendon or ligament injuries are fed lecithin with silica for several weeks.

Size 2.5 kg
Item no. 203001



Sport horses in particular need lecithin with silica during periods of pressure and to cope better with stress. Horses require this during a recuperation phase or when convalescing. Many osteopaths use lecithin with silica alongside treatment. Requirement per horse of around 500 kg: 25 to 30 g daily, 2 to 3 heaped scoops.

Analytical constituents: Crude protein 3.7%, crude fats 44.5%, crude fibre 1.4%, crude ash 34.1%.

Minerals: Calcium 1.3%, phosphorous 1.07%, sodium 0.02%.

Technological additives per kg: 400 g silica, precipitated/E551.

Reine Bierhefe (pure brewer's yeast)

Active intestinal flora – healthy skin – beautiful coat

Feed material for horses

PerNaturam's pure brewer's yeast is important for restoring the intestinal flora, especially after it has been affected by antibiotics and worming treatments. It is also beneficial in the case of skin, coat and fertility disorders. Pure brewer's yeast from PerNaturam (i.e. not from brewer's spent grain), optimises the supply of amino acids as it contains all of the essential ones. It also contains vitamins, the entire B complex, and trace elements (rich in iron, manganese and zinc).



Composition

100% pure brewer's yeast without spent grain.

Feeding recommendation

Depending on the weight of the horse, feed it 20 to 50 g daily as a course of treatment or on a regular basis in smaller quantities. The scoop holds 10 g.

Analytical constituents: Crude protein 43.3%, crude fats 2.8%, crude fibre 1%, crude ash 6.1%.

Minerals: Calcium 0.51%, phosphorous 1.11%, sodium 0.02%.

Size 3 kg
Item no. 202008

Herbazem Forte

For nutritional disorders of skin metabolism

Feed supplement for horses

Most disorders of the skin are diet-related, for example, itching, dandruff, sweet itch and mud fever. A bad coat change indicates a poor supply of nutrients. In most cases, this relates to a lack of trace elements in a horse's diet or occurs if it is only fed inorganically. This is typically the case for Icelandic horses. Many horses also lack lecithin and silica and have problems with their digestion. Many horses can be helped by optimising their feed.

Herbazem Forte helps by balancing out nutritional deficiencies in the form of aromatic bitter herbs. Their high choline, betaine and biotin content ensures stable intestinal flora. The micronised seaweed provides all of the minerals and trace elements in a highly bioavailable form, providing the cells with a better supply. This not only revitalises the skin, but also supports the development of new cells.



Size 1 kg
2.5 kg
Item no. 203009
203010

Composition

Sunflower lecithin (GMO-free), garlic, soluble seaweed, bitter herbs, pure brewer's yeast, organically-bound sulphur.

Feeding recommendation

Depending on the size of horse, feed 1 to 3 scoops of Herbazem Forte daily. 1 scoop holds 12 g.

Analytical constituents: Crude protein 11.1%, crude fats 15.9%, crude fibre 5.1%, crude ash 19.6%.

Minerals: Calcium 0.9%, phosphorous 0.57%, sodium 1.36%.

Technological additives per kg: 160 g silica, precipitated/E551.

Skin, Coat & Hooves

Huf-Fell-Perfekt (hoof-coat-perfect)

For strong hooves and a beautiful coat with 2,000 mg/kg biotin

Feed supplement for horses

Huf-Fell-Perfekt means hoof-coat-perfect and this is exactly what this product does: feed it to your horse for strong hooves and a beautiful coat. The high biotin content combined with L-methionine (sulphurous amino acid) and other indispensable substances for horn and hair formation ensure a distinct, rapid improvement in the hooves and coat. Regular feeding of PerNaturam's Huf-Fell-Perfekt is recommended long-term until the entire hoof has regrown, and for at least six weeks while the coat is changing. An ideal addition is velvet oil from PerNaturam.

Composition

Sunflower lecithin (GMO-free), brewer's yeast, seaweed powder, rosehip peel.

Feeding recommendation

During the change in coat, we recommend 40 g daily (4 to 5 scoops) for a minimum of four weeks, but preferably six. For new hoof horn formation after hoof damage, give your horse 30 g (3 scoops) every day for several months. The important factor is giving it on a regular basis for the duration. Due to the higher levels of trace elements compared to complete feeds, Huf-Fell-Perfekt must not make up more than 1% of the total daily feed.

Analytical constituents: Crude protein 13.1%, crude fats 13.7%, crude fibre 1%, crude ash 28.1%.

Size	Item no.
1 kg	203002
2.5 kg	203003



Minerals: Calcium 6.29%, phosphorous 0.51%, sodium 0.53%.
Technological additives per kg: 50 g silica, precipitated/E551.

Nutritional additives per kg: 2,000 mg biotin (D(+)-biotin), 2,000 mg vitamin E, 10,000 mg zinc chelate of glycine hydrate, 100 mg folic acid, 5,000 mg iron, 1,000 mg copper, 6,000 mg manganese chelate of glycine hydrate, 140 mg iodine, 4,000 mg L-methionine, 2,000 mg lysine.

Velvet-Coat

Herbal granules for a healthy coat and strong hooves

Feed supplement for horses

Damage to the skin, coat and hooves almost always indicates a poor diet, resulting in either hair or hooves, sometimes both, being poorly supplied with the necessary nutrients. Velvet-Coat delivers these missing substances.

Micronised herbs and algae, granulated in a cold process, form the basis. The high availability of nutrients ensures an unusually fast effect. Velvet-Coat is best combined with PerNaturam Velvet-Öl (velvet oil).

Composition

Micronised herbs (field pansy, horsetail, fumitory, milk thistle, goldenrod, hawthorn, nettle), micronised algae (Ascophyllum, spirulina), brewer's yeast, wheat germ.

Feeding recommendation

During the change in coat, give 40 g daily (1 scoop holds 10 g) for a minimum of four weeks, but preferably six.

For hoof horn formation in the case of hoof damage, give 30 g daily for several months until the hoof horn has fully grown back. Due to the high vitamin D3 content, only feed as a 2% maximum of the total daily feed.

Analytical constituents: Crude protein 10.7%, crude fats 1.8%, crude fibre 1%, crude ash 46.9%.

Minerals and natural trace elements:

Calcium 12.8%, phosphorous 4.4%, sodium 1.61%.

Size	Item no.
900 g	203500
2.5 kg	203501



Nutritional additives per kg: 2,000 mg biotin (D(+)-biotin), 4,000 mg L-methionine, 480 mg vitamin E, 2,500,000 IE vitamin A, 200,000 IE vitamin D3, zinc chelate of glycine hydrate 1,500 mg.

Aloe vera-Spray (Aloe vera spray)

For itching

Cares for irritated skin: Aloe vera spray from PerNaturam stops itching and makes the skin and coat shiny, supple and smooth. The high content of acemannan allows the skin cells to store more moisture.

Composition

Aloe vera gel (89.6%), lemongrass oil, jojoba oil; stabilisers: benzoic sorbate and potassium sorbate.



Recommendations for use

Apply thinly and massage into the skin and coat. This can be used to care for the skin and coat of horses with faecal water. Dirt is easily wiped off. Shake before use. Never spray in the eyes!

Size 200 ml
Item no. 203012

Haut-Balsam (skin balm)

Soothes and reduces itching

PerNaturam skin balm soothes and reduces itching, also around the mane crest and tail root. PerNaturam skin balm is fully absorbed and non-greasy.

Composition

Extracts of olive, yarrow, lime, marigold, clove and thyme.

Recommendations for use

Apply thinly to the damaged skin and rub in.



Size 300 ml
Item no. 203007

Kräuter-Balsam (herb balm)

Nourishes and restores sore or bruised areas of skin



The valuable herbal extracts in PerNaturam skin balm aid stressed and damaged skin. The balm is well absorbed and makes damaged areas supple, while providing protection and care, so helping skin to regenerate.

Composition

Extracts and balm oils of olive, marigold, clove, arnica, camomile, myrrh and propolis.

Recommendations for use

Apply thinly and rub in well.

Size 300 ml
Item no. 203006

Imker Balsam (beekeeper's balm)

Nourishing and antiseptic

Honey, propolis and beeswax define the aroma of the new Imker Balsam, which contains all the essential substances from the hive as well as significantly more propolis. As the ingredients are highly concentrated, the Imker Balsam can be used sparingly. Applied thinly, it forms a nourishing, antiseptic layer that protects the stressed areas of the skin while making it more supple and smooth.

Composition

Shea butter, coconut oil, beeswax, sunflower oil, honey, propolis, alcohol, water, essential rosemary oil, benzyl alcohol, benzyl esters of benzoic acid, cinnamic acid, salicylic acid.



Size 60 ml
Item no. 500017

Recommendations for use

Apply thinly and rub in well. For hoof corium damage, push into the grooves and cracks and distribute well. the grooves and cracks and distribute well.

Skin, Coat & Hooves

Bio-Koriander-Propolis-Öl (organic coriander and propolis oil)

Germ-inhibiting and nourishing

Feed supplement for horses

This oil is not only suitable for internal use; its anti-bacterial and disinfectant properties are also effective on the skin. Coriander and propolis oil cares for the skin, supports regeneration and the healing of wounds.

Feeding recommendation

Add 5 to 10 ml to the feed 2 to 3 times a day or give directly to the animal using a pipette or oral syringe.

Composition

Rapeseed oil, coriander (5%), propolis (1%).

Analytical constituents: Fat content 98%.



Size 250 ml
Item no. 210011

Always shake the bottle well before use! Please store in a cool, dark place.

Hanf-Öl (hemp oil)

Pharmaceutical grade, cold-pressed

Feed material for horses

Native and cold-pressed, it contains 14% monounsaturated fatty acids, 55% linoleic acid, 18% alpha-linolenic acid (omega-3) and 3% gamma-linolenic acid. The high chlorophyll content ensures the long shelf life of the oil. This fact and its ideal composition make hemp oil clearly superior to linseed oil. Hemp oil is important in all stages of life and is especially beneficial to the skin.

Feeding recommendation

Depending on the size of horse, regularly add 1 to 3 tablespoons to the feed. Once opened, keep refrigerated and use within 2 months!

Analytical constituents: Crude fats 99.9%.



Size 500 ml
Item no. 210001

Velvet-Öl (velvet oil)

With the perfect fatty acid composition for the skin, coat and hooves

Feed supplement for horses

Velvet oil is a blend of cold-pressed oils with a fatty acid composition perfectly matched to the skin, coat and hooves. The supply of fatty acids is optimised by the very high proportions of linoleic and linolenic acid and oleic acid, palmitic acid, other essential unsaturated fatty acids and the high levels of natural tocopherols (vitamin E).

Composition

Cold-pressed oil blend of sunflower, argan, rapeseed, hemp and linseed oils.

Feeding recommendation

Add 2 to 3 tablespoons to the feed daily. Alternate with other oils. Once opened, keep refrigerated and use within 2 months.

Analytical constituents: Crude fats 100%.



Size 500 ml
Item no. 210008

Myrrhe-Propolis-Spray und -Tropfen (myrrh and propolis spray and drops)

For inflammation and fungal infections of the mucous membranes

Myrrh and propolis have been used with great success since biblical times, mainly because of their antibacterial and anti-fungal properties. Myrrh is traditionally used to care for the mucous membranes in case of inflammation and fungal infections.

Composition

5% propolis, 5% myrrh, 90% ethanol (90%).

Recommendations for use

Thinly apply myrrh and propolis drops or spray on the affected skin.



Spray

Size 100 ml
Item no. 203011

Drops

Size 50 ml
Item no. 500007

AkaHorse

Deodorant for horses

Biocides – Federal Institute for Occupational Safety and Health (BAuA)
Reg. no. N-27251

AkaHorse is appreciated by both horses and riders for its deodorising and skin care effects. The gentle action of the purely herbal ingredients is highly effective in masking the horse's own odour, which is very attractive to insects. As a result, there is less annoyance from flies, horse flies, black flies, grass mites and other pests. Contains essential oils and wood extracts.

Recommendations for use

For application as a spray or using a sponge.

Instructions for safe use

Not to be ingested; keep away from children, do not expose to eyes or damaged areas of skin.



Size 500 ml
Item no. 203503

Size 2.5 l
Item no. 203502

Kolloidales Silberwasser 50 ppm und Silberwasser-Spray (colloidal silver water and silver water spray)

For bacteria and fungi

Ancient knowledge about the germicidal effect of silver was long negated and ridiculed. Today, however, silver is incorporated into modern weaved fabrics and utensils as a matter of course due to its germ-inhibiting effect. In fact, it has recently been used in space travel as an alternative to antibiotics.

For more information on colloidal silver water, please refer to the available literature and the internet.

Store colloidal silver water in a cool, dark place away from electrical appliances, otherwise the silver ions will flocculate and settle as a grey deposit.

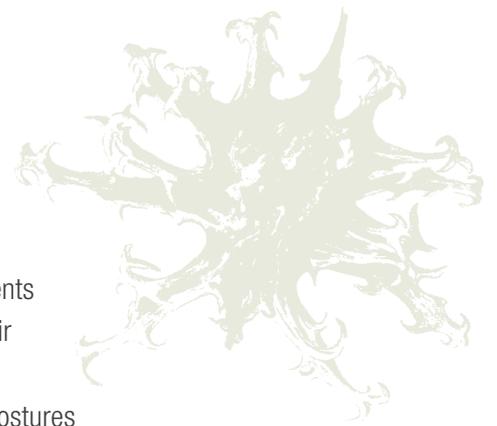


Size 100 ml
Item no. 500001

Size 250 ml
Item no. 500002

Spray

Size 100 ml
Item no. 500013



Running with ease

Good musculature, blood circulation and elasticity in the tendons and ligaments are essential to a horse's mobility. We need to pay particular attention to their joints. Synovial fluid ensures perfect mobility, while lubricating cartilage and joints. It is pumped into the joint with each movement. Pain and protective postures cause stiffness to develop which can worsen due to lack of exercise and may even cause chronic inflammation. Inflammation and deposits in the joint make each movement painful. Glycosaminoglycans, e.g. from the green-lipped mussel, smooth the roughened joint matrix enabling ease of movement again.

Exercise is essential for a horse's entire body, including bone density. Standing for long periods not only causes muscles to waste, but also bone strength to decrease. Circulation-enhancing herbal mixtures help to supply the periosteum and joints more effectively, maintain bone density and prevent deposits by improving the removal of metabolic by-products.

Movement is a complex interplay of muscles, joints, tendons and ligaments. We can support and regulate the process with our nutritional supplements and herbs.



Lecithin mit Kieselerde (lecithin with silica) with 60% lecithin and 40% silica

For cell growth, regeneration, performance and beauty

Feed material for horses with additives

Lecithins are the building blocks of all cell membranes and thus a prerequisite for cell formation and regeneration. Silica, i.e. silicon, is found everywhere in bones, cartilage, connective tissue, horn and synovial fluid. Lecithin is indispensable for the construction of all cell membranes and consequently all cells and nerve sheaths. Silica (silicon) is needed by the body to form synovial fluid and to build bones, cartilage, tendons, ligaments and horn. Pregnant mares and foals in particular, but also performance horses have a significantly greater need for lecithin. In the case of tendon and ligament damage, this combination promotes tissue regeneration, often surprisingly quickly and sustainably.

Composition

Sunflower lecithin (GMO-free)



Feeding recommendation

It is recommended that horses under strain or those with tendon or ligament injuries are fed lecithin with silica for several weeks. Sport horses especially need lecithin with silica during periods of pressure and to cope better with stress. Horses require this during a recuperation phase or when convalescing. Many therapists use lecithin with silica alongside treatment. Requirement per horse of around 500 kg: 25 to 30 g daily, 2 to 3 heaped scoops.

Analytical constituents: Crude protein 3.7%, crude fats 44.5%, crude fibre 1.4%, crude ash 34.1%.

Minerals: Calcium 1.3%, phosphorous 1.07%, sodium 0.02%.

Technological additives per kg: 400 g silica, precipitated/E551.

Size	Item no.
2.5 kg	203001

Ginkgo

Ginkgo biloba

For better circulation

Feed material for horses

Ginkgo is a well-studied plant that improves blood circulation in a gentle and effective way. Ginkgo leaves are an alternative to willow bark and meadowsweet.

Ginkgo protects the blood vessel walls and the red blood cells with its antioxidant effect. It thus promotes blood circulation in the entire periphery through to the finest vessels of the skin, hooves, brain and internal organs. Ginkgo is therefore often given in addition to other herbs to ensure that their ingredients more effectively reach where they are needed most.



Composition

100% ginkgo leaves, cut.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of PerNaturam ginkgo leaves into the feed daily, for 1 to 2 weeks.

Analytical constituents:

Crude fibre 13.7%.

Size	Item no.
1 kg	206015

Weidenrinde & Mädesüß (willow bark & meadowsweet)

Salix spec. & Filipendula ulmaria

Promotes blood flow

Feed supplement for horses

Willow bark and meadowsweet contain natural salicylates that improve blood flow; this not only improves the supply of oxygen and nutrients to the cells, but also helps to remove CO₂.

Salicylates are also known to relieve pain without affecting the gastric mucosa. The improved blood flow supplies areas with poor blood circulation better and improves cell metabolism.

Composition

Willow bark and meadowsweet, 50% each.



Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of willow bark & meadowsweet into the feed daily for a week. Then take a 3-day break, followed by 3 more days of adding it to the feed. Continue feeding like this for a maximum of four weeks.

Analytical constituents:

Crude protein 6.3%, crude fats 1.9%, crude fibre 31.8%, crude ash 5.6%.

Minerals: Calcium 1.29%, phosphorous 0.12%, sodium 0.01%.

Size	Item no.
1 kg	206016
3 kg	206028

Musculoskeletal System

Ortho-Perna-San

For strong, resilient joints

Feed supplement for horses

The combination of green-lipped mussel concentrate with other important substances for the build-up and regeneration of joints is what makes this product special. Your horse will soon show its appreciation by exhibiting better mobility and performance.

Green-lipped mussel concentrate helps to regenerate the joint matrix, while the herbs promote circulation and improve blood supply to the tissue. Devil's claw, meadowsweet and frankincense reduce painful inflammatory processes, while thanks to improved blood circulation, toxins and metabolic waste products are more effectively removed at the same time. For arthrosis, Ortho-Perna-San can also be given daily, especially in winter. You can achieve even better blood circulation with willow bark & meadowsweet or ginkgo from PerNaturam.

Composition

30% concentrate from the green-lipped mussel (*Perna canaliculus*), gelatine, rosehip, African devil's claw (*Harpagophytum*), meadowsweet, frankincense.

§ According to feed law, green-lipped mussels must be declared as fish meal. Therefore, it states on the container: Contains fishmeal and must not be fed to ruminants.

Feeding recommendation

Give 10 to 20 g of Ortho-Perna-San daily. 1 scoop holds 12 g. We recommend giving older horses with joint damage Ortho-Perna-San two to three times a week, preferably combined with lecithin and silica. The product only needs to be fed for 5 to 7 days to allow for recuperation after high performance demands.

Analytical constituents:

Crude protein 37.8%, crude fats 5.1%, crude fibre 5.8%, crude ash 8.6%.

Minerals: Calcium 0.46%, phosphorous 0.29%, sodium 0.61%.



Size Item no.

500 g	204001
1 kg	204002

Hagebutten (rosehips) – whole or crushed

Rosa canina

Rich in antioxidants; indispensable for healthy articular cartilage

Feed material for horses

Rosehips are rich in vitamins C, K, beta-carotene and antioxidants. They also make a healthy, tasty treat. As research in Denmark has shown, they also help to regenerate tendons and articular cartilage. They contain a special substance, galactolipid (GOPO), which reduces sensitivity in the case of joint pain and arthrosis and improves suppleness of movement. Regular feeding of rosehips also ensures better blood circulation to the capillaries and especially in the hoof corium. The best results are achieved by adding lecithin with silica and willow bark & meadowsweet from PerNaturam at the same time.

Composition

100% rosehips, crushed or whole.

Feeding recommendation

Depending on the size of horse, mix a heaped tablespoon or handful of rosehips with the feed every day, or give a few every now and then as a treat.

Analytical constituents:

Crude fibre 38.1/35.9%.



Rosehips, crushed

Size	Item no.
2 kg	206025
6 kg	206030



Rosehips, whole

Size	Item no.
2 kg	206004
6 kg	206029

Ingwer (ginger) *Zingiber officinale*

Traditionally used to support digestion and improve joint function

Feed material for horses

Ginger is rich in aromatics, pungent substances and bitter substances. Ginger stimulates the digestion and calms a sensitive stomach if administered several times in small amounts. It improves blood circulation and thus also the blood supply in joint areas. Ginger encourages a more active metabolism and better mobility, especially in older horses.

Composition

100% ginger, cut.



Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons (10 to 30 g) of ginger into the food.

Analytical constituents:

Crude fibre 7.9%.

Size Item no.

1 kg 206003

Teufelskralle (devil's claw) *Harpagophytum procumbens*

Improves mobility and relieves arthritic pain

Feed material for horses

PerNaturam's devil's claw is picked sustainably from the wild, which not only maintains the plant species, but also safeguards jobs. It is distinguished by its high quality. African devil's claw strengthens joints and can smooth the joint matrix, as well as relieving arthritic pain and improving mobility. It helps to restore suppleness and smooth movements.

Feeding recommendation

Depending on the size of horse, mix 1 to 3 heaped tablespoons of devil's claw into the feed daily (10 to 30 g).

Analytical constituents:

Crude fibre 8.2%.



Size Item no.
1 kg 206002

Resin forte

For joint problems and metabolic support

Feed supplement for horses

Resin forte frankincense and myrrh resin care for the intestinal mucous membranes and support healthy intestinal flora. Traditionally, frankincense and myrrh are also administered for joint problems and metabolic support.

Composition

Frankincense concentrates of *Boswellia serrata* and myrrh resin.

Feeding recommendation

Add 5 to 10 g of Resin forte to the feed daily for a minimum period of 4 weeks. 1 scoop holds 10 g.

Analytical constituents:

Crude protein 4.4%, crude fats 26.6%, crude fibre 9%, crude ash 24.7%, boswellic acid content 40%.

Minerals: Calcium 0.77%, phosphorous 0.01%, sodium 0.02%.

Size Item no.

250 g 205016
500 g 205017



Bio-Curcuma-Myrrhe-Öl (organic turmeric and myrrh oil)

For more suppleness and smooth movement and to reduce inflammatory processes

Feed supplement for horses

Organic Turmeric and myrrh oil combines Ayurvedic traditions with the findings of modern research. Turmeric extracts in rapeseed and sesame oils have a stabilising effect on the intestines and improve metabolism.

The high antioxidant capacity reduces inflammatory processes and pain. The oil extract protects the mucous membranes and, together with black pepper, improves absorption.

Composition

Rapeseed oil, sesame oil, turmeric (5%), myrrh (1%), black pepper.

Feeding recommendation

Add 5 to 10 ml to the feed 2 to 3 times a day or give directly to the animal using a pipette or oral syringe.

Analytical constituents: Crude protein 0.3%, crude fats 98%, crude fibre 1%.

Minerals: Calcium 0.01%, phosphorous 0.01%, sodium 0.01%.

Size Item no.

250 ml 202026
2* x 250 ml *Only for final consumers.



Inner balance

Our horses give us a sense of closeness to nature and harmony. Most of the day, they graze quietly on pasture and lead a very relaxed life. However, 50 to 70% of leisure horses and over 90% of race horses suffer from stomach ulcers. What kind of stress are our horses exposed to?

Stress can be triggered externally, but it is often the result of a lack of inner balance. Stress is defined as the psychological and physical reactions to specific stimuli that enable unusual demands to be met.

Stress reactions have different phases, there is active and passive stress, different reactions to stress and much more. Stress is not necessarily always negative; as eustress, it can improve the willingness to react and even the ability to perform. Negative stress, however, due to consistently excessive demands or to a lack of demands causing weakening, can lead to aggression and illness.

For this reason, it is paramount to first identify and eliminate the causes of stress. If the causes are identified and avoided, or coping strategies for the stress are being practised, then the nutritional side can be added for a calming and balancing effect. This promotes concentration and performance.



Balsama

For calming stressed horses

Feed supplement for horses

Increased nervousness and a hectic pace can easily lead to serious accidents. Horses experiencing these states are not resistant to stress. They need more composure. Above all, this is a psychological problem that must be tackled accordingly. Balsama herbs can help with this. Nervousness is not restricted to the mind, it also influences the digestive organs, liver, stomach and intestines. Certain cases of colic can be attributed to it. The herbs in Balsama can help a horse to feel more relaxed without making it sluggish or drowsy.

Composition

Hops, lemon balm, lavender, valerian, stinging nettle, apple, camomile.

Feeding recommendation

Balsama herbs are either given for a certain period to a maximum of 4 weeks, alternated or even combined with other herbal mixtures, such as the Sonnenwend-Immunkräuter (immune herbs) or the primary care/landscape mixture herbs.



Size	Item no.
500 g	208011
1 kg	208005
3 kg	208006

With nervous horses, it has proved beneficial to add 50 to 70 g of moistened herbs to the feed. For extremely nervous horses and horses in unusually stressful situations, such as transit, relocation and in new, unfamiliar surroundings, it is recommended that the Balsama herbal mixture is given a week before and afterwards.

Analytical constituents: Crude protein 12.7%, crude fats 3.6%, crude fibre 17.6%, crude ash 11.1%.

Minerals: Calcium 1.13%, phosphorous 0.31%, sodium 0.06%.

Süßholzwurzel (liquorice root)

Glycyrrhiza glabra

Soothes the mucous membranes in the respiratory and digestive systems

Feed material for horses

Liquorice root is an effective antioxidant that is used to soothe mucous membranes in the digestive and respiratory tracts. It contains more than 40 different flavonoids. Liquorice root soothes the gastric and intestinal mucous membranes, but also bronchial tubes that are under attack. It has been shown to have an antibacterial and antimycotic effect. Its anti-inflammatory and antispasmodic effect has also been clinically proven. For stomach and intestinal problems, especially stomach ulcers, intensify the effect with PerNaturam's anise-caraway-fennel.



Size	Item no.
1 kg	206005

Composition

100% liquorice root, cut.

Feeding recommendation

Depending on the size of horse, add 1 to 3 tablespoons of PerNaturam liquorice root to ½ litre of water and simmer gently for 15 minutes. Mix the boiled liquorice root and the cooled brew into the feed.

Analytical constituents:

Crude fibre 20.1%.

Also beneficial during periods of stress!
Find more information on pages 55 and 5



Lecithin with silica and EquiBasal®



Stress & Performance

Anis-Kümmel-Fenchel (anise-caraway-fennel)

For gastric ulcers, severe flatulence, risk of colic

Feed supplement for horses

Anise, caraway and fennel are the typical spice plants recommended for the treatment and prevention of gastrointestinal problems, especially gastric ulcers, severe flatulence or colic. This mixture has also proven its benefits for horses that tend towards nervous colic. Horses thoroughly enjoy eating this mixture and it can also be used simply to vary the flavour of their feed.

For gastric ulcers and disturbed intestines, we recommend mixing the anise-caraway-fennel mixture with a liquorice root brew. Also add Ostpreußen herbs and/or Amara bitter herbs to the feed as primary care.

Anise-caraway-fennel also promotes milk production, making it particularly important for lactating mares!

Composition

Anise, caraway and fennel in equal parts, crushed.

Feeding recommendation

Depending on the size of horse and the problem, add up to 3 scoops of PerNaturam anise-caraway-fennel to the feed several times a day. It is even more effective when soaked in hot water. The scoop holds 10 g.

Size Item no.

1 kg 208009

2.5 kg 208030



Analytical constituents: Crude protein 19.2%, crude fats 23%, crude fibre 11.6%, crude ash 6.3%.

Minerals: Calcium 0.89%, phosphorous 0.51%, sodium 0.03%.

EquiForte

For building up muscles and inner strength

Feed supplement for horses

EquiForte is indispensable for horses that need to build up their muscles, for example, after illness, when top performance is required, during training or for cases of exhaustion or age-related muscle atrophy. This is only effective if the horse is moved or trained. Many therapists use EquiForte alongside treatment. Rice husks and rice germs contain important substances for hormone control and building up muscles.

Composition

Rice germs, rosehip peel, bitter herbs, maral root, Siberian ginseng, willow bark, meadowsweet, Aztec sweet herb.

Feeding recommendation

Up to 150 g of this product can be fed daily per horse, but 50 g to 100 g is usually enough. Muscle gain takes a few weeks. 50 g per day is sufficient to maintain the muscles. EquiForte should be discontinued 3 days before tournaments. The scoop holds 10 g.

Analytical constituents: Crude protein 11.3%, crude fats 14.4%, crude fibre 10.1%, crude ash 12.6%.

Minerals: Calcium 0.86%, phosphorous 0.82%, sodium 0.05%.

Size Item no.

1 kg 212001

3 kg 212003



Reiskeim-Öl (rice germ oil)

Pharmaceutical grade, cold-pressed

Feed material for horses

Pharmaceutical grade rice germ oil from PerNaturam is rich in unsaturated fatty acids. It contains the active rice germ ingredient gamma oryzanol, which promotes fertility and improves muscle development. It has an ideal fatty acid structure of unsaturated oleic acid (38 to 43%), linoleic acid (32 to 43%) and palmitic acid (15 to 20%), and is also particularly rich in tocopherol (vitamin E). Rice germ oil is especially important for broodmares before mating, for foals and growth phases.

Composition

100% cold-pressed rice germ oil.

Feeding recommendation

Add 2 to 3 tablespoons to the feed daily. Alternate with other oils. Never use for sport horses before competitions! Once opened, keep refrigerated and use within 2 months!

Analytical constituents:

Crude fats 99%.

Size Item no.

500 ml 210003



Energiekörner-Mischung (energy grain mixture)

Fatty seeds for a good supply of energy

Feed supplement for horses

Plant seeds are especially rich in energy since plants pack them with the energy they need for their germination. Horses that are able to graze in high grass in late summer and autumn pull off the seed stalks of grass and herbs with their teeth.

Composition

Sunflower seeds, hemp seeds, buckwheat, camelina, black cumin, cardoon, perilla, sesame, chia, sorghum millet.

Feeding recommendation

Soak the PerNaturam energy grain mixture in water for 15 minutes before feeding or, preferably, grind or crush the grains in a coffee grinder. Depending on the size and energy requirements of your horse, give ½ to 1 measuring cup daily, especially during performance phases, in winter or in cases of emaciation. The measuring cup holds 80 g.

Size	Item no.
1 kg	212006
3 kg	212007



Analytical constituents: Crude protein 15.3%, crude fats 3.1%, crude fibre 12%, crude ash 22.7%.

Minerals: Calcium 6.63%, phosphorous 0.41%, sodium 0.94%.

Herbs and their relevance to doping



The resilience of a horse and its activity and performance in sports, for example, depend heavily on its resistance to stress. In cells, the mitochondria provide energy. An ordinary body cell has about 1,500 mitochondria, nerve tissue up to 6,000. This is why a supply of phytochemicals and antioxidants is so important in order to protect the mitochondria and help them to reproduce sufficiently to provide the required energy. This interconnection shows how closely the subject of nerves and stress is related to performance and sport.

In sport, horses are very much dependent on an optimised diet to

ensure their supply of energy and to shorten recuperation phases. Herbs and special additives help the body with these high demands, improve stress resistance and provide more balance. Discussion around the use of herbs in sport is quite restricted and does not properly take into account species-appropriate care. Consequently, herbs are not given 48 hours before competitions. Lecithin with silica offers an alternative, since lecithin is also produced by the liver itself and is therefore not relevant for doping. This means it can be used to reduce stress during loading, transit and on competition days without a period of restriction.



Making sure the chemistry is right!

In order for organs and organ systems to work together in harmony, they must communicate with each other. This communication takes place in the nervous system by means of electronic stimuli, and in the hormonal system by means of chemical signals. Hormones work by being transported from their place of production to their place of action via the blood vessel system. Very small amounts of a hormone are sufficient to trigger reactions in the target organ. Hormones are not species-specific, i.e. hormones of higher animals can also be effective in other animals and in humans. This is why hormones such as oestrogens, which enter the environment, can cause considerable problems. The hormone system is also known as the endocrine system, i.e. a system that “secretes internally”. Hence, hormone glands are also called endocrine glands because they release their secretion (hormones) inside the body. Hormones are released by the glands in response to an event or intermittently in regular cycles. These can last in the range of minutes (insulin), hours (hormones of the gonads), months (menstrual cycle) or for seasonal periods (sex hormones).

Hormone glands belong partly to the nervous system, partly to the digestive system and partly to the peritoneum. Hormones not only affect growth, metabolism and reproduction, but also the psyche and behaviour. There are a number of plants that contain hormone-like substances, which are called phytohormones. Other active plant substances can support the production of hormones, modulate or even inhibit hormone production.

If your horse has problems with its pancreas, please take a look at page 30 for more information on the liver and pancreas.



Stutenkräuter (mare herbs)

Before and after foaling; to regulate the oestrus; to reduce stress in the herd

Feed supplement for horses

The mare herbs mixture from PerNaturam includes herbs that are indispensable for the mare in her last weeks of pregnancy and during the first lactation phase. However, these are herbs that are not often found in many pastures these days. This special blend from PerNaturam promotes blood circulation in the uterus and strengthens its muscles, in turn helping to ease labour and birth as well as the mare's recovery afterwards.

Composition

Lady's mantle, raspberry leaves, lime leaves, horsetail, lemon balm, marigold, camomile, fennel seeds, Icelandic moss.

Feeding recommendation

Depending on the size of mare, give 30 to 80 g daily for 2 to 3 weeks before and after giving birth.



Size	Item no.
1 kg	208036
3 kg	208037

Analytical constituents:

Crude protein 11.4%, crude fats 3.5%, crude fibre 19.8%, crude ash 9%.

Minerals: Calcium 1.26%, phosphorous 0.2%, sodium 0.11%.

Mönchspfeffer (monk's pepper)

Vitex agnus-castus

For hormonal mood swings and prolonged oestrus

Feed material for horses

Monk's pepper has a calming and balancing effect on behavioural problems and disorders, such as stallion behaviour in geldings or prolonged oestrus and false pregnancy in mares.

Composition

100% monk's pepper seeds.



Feeding recommendation

Depending on the size of horse, mix 1 to 2 heaped tablespoons (8 to 15 g) of PerNaturam monk's pepper into the feed daily.

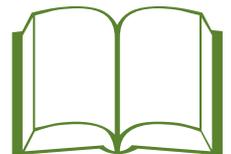
Analytical constituents:

Crude fibre 54%.

Size	Item no.
1 kg	206027

Hormonal Balance

Romeo and Juliet



Most people associate the subject of hormones with oestrogen and testosterone and, above all, with the times around puberty and menopause when these hormones can go mad. Sex hormones are important messengers, but they alone do not represent the complex hormonal system by any means. Moods (ours and our animals), the entire metabolism, reproduction and rearing, stress management, restlessness, skin reactions and much more: hormones are involved in a wide variety of processes in the body. Hormone production decreases with age.

An unbalanced diet, lack of exercise, stress in the herd, chemicals, medication and worming treatments can also contribute to hormonal imbalance. Often, this imbalance is reflected in symptoms such as irritability, digestive problems, and hoof, skin or coat problems. Sufficient exercise helps to rebalance the hormone levels; a species-appropriate diet and special herbs offer further benefits. Complex forms of detoxification and elimination help to support hormone production and restore internal balance.

Pregnancy and birth are major achievements!

Before a mare conceives, she will have built up a reserve of nutrients, including calcium, to prevent these being exhausted by the foetus. If this deposit has not been built up due to deficiencies or it is too small, the mare either does not conceive at all or reabsorbs the foetus. This brings us back once again to the topic of species-appropriate and optimal care, i.e. right back to the crux of life itself.

At the end of the gestation period, mares are given mare herbs, which ensure good blood circulation to the internal organs, including the pelvic muscles and uterus.

Blood circulation is particularly important at this time, as some of the organ functions are impeded by pressure from the foetus.

The birth is a major achievement for both mare and foal. A bottle of Kolsal® colostrum extract* will help the exhausted mother to recuperate. The foal soon gets up and stands steadily on its four legs to go and explore the world.

However, a drink is needed first. With the colostrum from its mother, the foal receives important immune substances to cope with the germ flora of its environment. Eating faeces is absolutely necessary to build up the intestinal flora. As the gastric acid is not yet fully developed, the germs from the maternal faeces are able to enter the intestines.

The taste of the mother's milk is influenced by the feed, the quality of the pasture and the hay. The foal sniffs the trough curiously and if it can, it will soon eat herbs with its mother, because the flavours are already familiar from its mother's milk.

The colonisation of the intestine begins with the ingested excrement. The intestinal flora includes a large variety of bacteria, fungi and protozoa. Even worms are needed to help train the immune system. Nature is quite ingenious when it comes to providing the foal with a whole ecosystem of germs. This is the only way it will be able to deal with the environment and build up strong immune defences.

Continue reading on page 75



Worming or antibiotics just before birth is a dramatic intervention in the health of both mare and foal. It often marks the beginning of a long history of suffering, because this does not allow the foal to build up its own healthy intestinal flora. However, intestinal flora are essential to its nourishment.

Seeing a mare with its foal in the pasture is a wonderful experience. Whilst gestation is by no means an illness, it does demand a supply of all the necessary nutrients to allow the mare and foal to develop properly.

Curious and accompanied by its mother in a species-rich pasture and with varied feed, the foal discovers the world of plants, learning to select them and to explore their different flavours.

Stutenkräuter (mare herbs)

To restore hormonal balance during and after the oestrus

Feed supplement for horses

The mare herbs mixture from PerNaturam includes herbs that are indispensable for the mare in her last weeks of pregnancy and during the first lactation phase. However, these are herbs that are not often found in many pastures these days. This special blend from PerNaturam promotes blood circulation in the uterus and strengthens its muscles, in turn helping to ease labour and birth as well as the mare's recovery afterwards. Administering mare herbs has also proven successful in separation processes and changes in the herd.

Composition

Lady's mantle, raspberry leaves, lime leaves, horsetail, lemon balm, marigold, camomile, fennel seeds, Icelandic moss.



Feeding recommendation

Depending on the size of mare, give 30 to 80 g daily for 2 to 3 weeks before and after giving birth.

Analytical constituents: Crude protein 11.4%, crude fats 3.5%, crude fibre 19.8%, crude ash 9%.

Minerals: Calcium 1.26%, phosphorous 0.2%, sodium 0.11%.

Size	Item no.
1 kg	208036
3 kg	208037

EquiBasal®

Natural nutrients and vital substances

Feed supplement for horses

EquiBasal® is a basic supplement; it contains herbs in an organic mineral feed that guarantees optimal care of your horse. EquiBasal® not only ensures stable intestinal flora and an active metabolism, but also perfect skin and a shiny coat. EquiBasal® is rich in natural antioxidants, helping the body to cope better with inflammation. It is especially important for recuperation.

Composition

Apple granules, sunflower lecithin (GMO-free), rosehip, grapeseed flour, brewer's yeast, stinging nettle, spirulina, seaweed, flower pollen, anise, caraway, fennel.

Feeding recommendation

Give 50 to 100 g regularly, preferably daily, depending on the size of horse or the strain its under. With good primary care, give it as a course of treatment for several weeks. The measuring cup holds 100 g.

Analytical constituents: Crude protein 12.9%, crude fats 12%, crude fibre 16.9%, crude ash 13.8%.

Minerals: Calcium 0.72%, phosphorous 0.55%, sodium 0.72%.



Size	Item no.
1 kg	200006
3 kg	200001
6 kg	200002

Technological additives per kg: 60,000 mg silica, precipitated/E551.

Nutritional additives per kg: 1,000 mg L-methionine.

Mares & Foals

EquiFertil

For improving fertility

Feed supplement for horses

Increasingly more mares are barren these days. Furthermore, the quality of stallion semen is often poor. EquiFertil can provide the solution. EquiFertil encourages sexual activity and improves the fertility of both mares and stallions. The most important substance in this product is the oryzanol contained in rice husks and germs. Oryzanol acts as a releaser on the hypothalamus, which then stimulates the gonads via the pituitary gland to control the production of sex hormones.

Composition

Siberian ginseng, sunflower lecithin (GMO-free), active plant ingredients from rice germs (gamma-oryzanol), ginkgo, vine leaves, tomato, buckwheat and oak as well as glutathione yeast.



Feeding recommendation

Give mares 1 scoop (10 g) per 100 kg body weight every day about one month before the expected oestrus. Give stallions the same amount every other day before and during the entire breeding season.

Analytical constituents: Crude protein 8%, crude fats 17.1%, crude fibre 17.4%, crude ash 17.1%.
Minerals: Calcium 0.84%, phosphorous 0.76%.

Technological additives per kg:

68 g silica, precipitated/E551.

Size Item no.

500 g 211001

Lecithin mit Kieselerde (lecithin with silica) with 60% lecithin and 40% silica

For cell growth, regeneration, performance and beauty

Feed material for horses with additives

Lecithins are the building blocks of all cell membranes and thus a prerequisite for cell formation and regeneration. Silica, i.e. silicon, is found everywhere in bones, cartilage, connective tissue, horn and synovial fluid. Lecithin is indispensable for the construction of all cell membranes and consequently all cells and nerve sheaths. Silica (silicon) is needed by the body to form synovial fluid and to build bones, cartilage, tendons, ligaments and horn. Pregnant and lactating mares, foals, but also performance horses, have a significantly greater need for lecithin.

Composition

Sunflower lecithin (GMO-free).



Feeding recommendation

Mares need lecithin with silica especially in the last weeks of gestation and after foaling. Requirement per horse of around 500 kg: 25 to 30 g daily, 2 to 3 heaped scoops.

Analytical constituents: Crude protein 3.7%, crude fats 44.5%, crude fibre 1.4%, crude ash 34.1%.

Minerals: Calcium 1.3%, phosphorous 1.07%, sodium 0.02%.

Technological additives per kg:

400 g silica, precipitated/E551.

Size Item no.

2.5 kg 203001

Anis-Kümmel-Fenchel (anise-caraway-fennel)

Counteracts flatulence and encourages milk production

Feed supplement for horses

Anise, caraway and fennel are the typical spice plants recommended for the treatment and prevention of gastrointestinal problems, especially gastric ulcers, severe flatulence or colic. This mixture has also proven its benefits for horses that tend towards nervous colic. Horses thoroughly enjoy eating this mixture and it can also be used simply to vary the flavour of their feed.

For gastric ulcers and disturbed intestines, we recommend mixing the anise-caraway-fennel mixture with a liquorice root brew. Also add Ostpreußen herbs and/or Amara bitter herbs to the feed as primary care. Anise, caraway and fennel also promote milk production, making this mixture particularly important for lactating mares!

Composition

Anise, caraway and fennel in equal parts, crushed.



Feeding recommendation

Depending on the size of horse and the problem, add up to 3 scoops of PerNaturam anise-caraway-fennel to the feed several times a day. It is even more effective when soaked in hot water. The scoop holds 10 g.

Analytical constituents: Crude protein 19.2%, crude fats 23%, crude fibre 11.6%, crude ash 6.3%.

Minerals: Calcium 0.89%, phosphorous 0.51%, sodium 0.02%.

Size Item no.

1 kg 208009

2.5 kg 208030

Old friends

If we have older horses, we have often shared a large part of our lives with them, enjoying a close friendship, and a loving fondness. Even if we can see their age, in our hearts our old horses live on with the power and strength that has now passed. Old age is not a disease and every horse is exposed to wear and the ageing process.

Older horses in particular need special care in the form of optimised basic feed, roughage with species-rich herbal supplements and easily digestible vegetable-herb mixtures rich in minerals. It is important to keep stimulating the metabolism and to pay special attention to the digestive and cleansing organs, i.e. liver, gall bladder, intestines, kidneys, skin, spleen and lymphatic system.

It is as simple as that. Herbal mixtures with their bitter substances, their secondary plant ingredients and their natural antioxidants provide effective help. They boost the immune system, support cell metabolism and improve overall vitality. By caring for our older horses appropriately for their age, we not only ensure that they will live longer, but that they will also have a better quality of life. What we get back in return, we will cherish many times over.

For information on how you can improve agility and mobility, support the cardiovascular system, and what options are available for better elimination via the liver and kidneys, please refer to the relevant catalogue sections.

More detailed information can be found in our guides: "Alte Pferde – gute Freunde" (Old horses – good friends) and "Leber und Nieren" (Liver & Kidneys) or download them at www.pernaturam.de/fuer-pferde/ratgeber; alternatively, order the free brochures in the Pernaturam shop at www.shop-pernaturam.de/pernaturam-ratgeber-pferde. (Currently only available in German).



Seniors

Seniorsan

All-round revitalisation for older horses

Feed supplement for horses

In old age, many bodily functions start to deteriorate. Horses supplied with Seniorsan are livelier and more active, with more zest for life and a better quality of life. Combine Seniorsan herbs with HerbaCor and Sonnenwend-Immunkräuter herbs or alternate these on a weekly basis. The herbs in Seniorsan improve digestion and the metabolism, promote elimination and support joint function.

Composition

Yarrow, nettle, goldenrod, sage, fenugreek, devil's claw, marigold.

Feeding recommendation

Depending on the size of horse, mix one or two handfuls (approx. 50 to 70 g) of PerNaturam Seniorsan with the feed every day – preferably moistened.

Analytical constituents: Crude protein 11.8%, crude fats 3.2%, crude fibre 23.4%, crude ash 7.3%.

Size	Item no.
500 g	208012
1 kg	208007
3 kg	208008



Minerals: Calcium 1.03%, phosphorous 0.29%, sodium 0.05%.

Bio-CrataeHorse (organic)

Organic juice from pressed hawthorn leaves and blossom, mistletoe and rosemary

Feed supplement for horses

Bio-CrataeHorse combines effective plants that are traditionally used to support the heart and circulation. This combination strengthens the heart muscles, regulates circulation, improves blood flow to the organs and stimulates the immune system. Bio-CrataeHorse is for animals with high performance requirements and for older animals.

Composition

Hawthorn leaves with blossom, mistletoe, rosemary.



Feeding recommendation

Depending on the size of horse, feed it 5 to 10 ml two to three times a day.

Analytical constituents: Crude protein 0.4%, crude ash 0.2%, moisture 98%.

Minerals: Calcium 0.28%, phosphorous 0.002%, sodium 0.03%.

Size	Item no.
250 ml	210012
2* x 250 ml	*Only for final consumers.

HerbaCor

Support for the heart, circulation and blood flow

Feed supplement for horses

The heart muscle is constantly in action. The HerbaCor herbal mixture regulates and supports the circulation and improves heart activity, making horses more attentive and active. The HerbaCor herbs are a huge help during changes in the weather, for sluggish and older horses, but also for performance horses. The improved blood circulation reduces oedema, especially swollen legs. With old horses it is best to feed alternately with Seniorsan. Excellent results have been achieved with cold-blooded horses.

Composition

Hawthorn leaves with flowers and fruits, ginkgo, blackberry leaves, rosemary, horsetail, sweetheart cabbage, lemon balm leaves, rose petals.

Feeding recommendation

Add 30 to 70 g of HerbaCor per horse to the feed daily, preferably moistened.

Analytical constituents: Crude protein 10.8%, crude fats 4%, crude ash 19.1%, crude fibre 8.8%.

Minerals: Calcium 1.59%, phosphorous 0.22%, sodium 0.01%.

Size	Item no.
500 g	208016
1 kg	208014
3 kg	208015



Bio-Curcuma-Myrrhe-Öl (organic turmeric and myrrh oil)

Revitalises the metabolism and musculoskeletal system

Feed supplement for horses

Organic Turmeric and myrrh oil combines Ayurvedic traditions with the findings of modern research. Turmeric extracts in rapeseed and sesame oil have a stabilising effect on the intestines and improve metabolism. The high antioxidant capacity reduces inflammatory processes and pain. The oil extract protects the mucous membranes and, together with black pepper, improves absorption.

Composition

Rapeseed oil, sesame oil, turmeric (5%), myrrh (1%), black pepper.



Feeding recommendation

Add 5 to 10 ml to the feed 2 to 3 times a day or give directly to the animal using a pipette or oral syringe. Always shake the bottle well before use! Please store in a cool, dark place.

Analytical constituents: Crude protein 0.3%, crude fats 98%, crude fibre 1%.

Minerals: Calcium 0.01%, phosphorous 0.01%, sodium 0.01%.

Size	Item no.
250 ml	202026
2* x 250 ml	*Only for final consumers.

Ortho-Perna-San

For strong, resilient joints

Feed supplement for horses

The combination of green-lipped mussel concentrate with other important substances for the build-up and regeneration of joints makes this product special. Your horse will soon show its appreciation by exhibiting better mobility and performance. Green-lipped mussel concentrate helps to regenerate the joint matrix, while the herbs promote blood circulation and improve supply to the tissue. Devil's claw, meadowsweet and frankincense reduce painful inflammatory processes. Due to the better blood circulation, toxins and metabolic by-products are more effectively removed at the same time. You can achieve even better blood circulation with willow bark & meadowsweet or ginkgo from PerNaturam.

Composition

30% concentrate from the green-lipped mussel (*Perna canaliculus*), gelatine, rosehip, African devil's claw (*Harpagophytum*), meadowsweet, frankincense.



Size	Item no.
500 g	204001
1 kg	204002

§ According to feed law, green-lipped mussels must be declared as fish meal. Therefore, it states on the container: Contains fishmeal and must not be fed to ruminants.

Feeding recommendation

Give 10 to 20 g of Ortho-Perna-San daily. 1 scoop holds 12 g. We recommend giving older horses with joint damage Ortho-Perna-San two to three times a week, preferably combined with lecithin and silica. The product only needs to be fed for 5 to 7 days to allow for recuperation after high performance demands.

Analytical constituents:

Crude protein 37.8%, crude fats 5.1%, crude fibre 5.8%, crude ash 8.6%.

Minerals: Calcium 0.46%, phosphorous 0.29%, sodium 0.61%.

Resin forte

For joint problems and metabolic support

Feed supplement for horses

Resin forte frankincense and myrrh resin cares for the intestinal mucous membranes and supports healthy intestinal flora. Traditionally, frankincense and myrrh are also administered for joint problems and metabolic support.

Composition

Frankincense concentrates of *Boswellia serrata* and myrrh resin.

Feeding recommendation

Add 5 to 10 g of Resin forte to the feed daily for a minimum period of 4 weeks. 1 scoop holds 10 g.

Analytical constituents: Crude protein 4.4%, crude fats 26.6%, crude fibre 9%, crude ash 24.7%, boswellic acid content 40%.

Minerals: Calcium 0.77%, phosphorous 0.01%, sodium 0.02%.

Size	Item no.
250 g	205016
500 g	205017



Seniors

Sanguina

Supports blood formation

Feed supplement for horses

Anaemia due to a lack of iron is typically caused by a poor diet, manifesting in a weakened immune system and impaired performance; a shortness of breath can often be observed. The iron-rich herbs in Sanguina provide the iron compounds necessary for blood formation. Sanguina is particularly important for red blood cells or a low haemoglobin count – as ascertained from blood test results: more haemoglobin, more oxygen, better deacidification, better performance. To optimise the mineral supply, add Orgamin® or seaweed powder to the feed. Another important source is the Hortus vegetable mix. We recommended using HerbaCor in parallel to strengthen the circulation.

Composition

Horehound, agrimony, blackberry leaves, verbena, hemp agrimony, thyme, fennel, elderberries, tormentil, Siberian ginseng, rowan berries.

Feeding recommendation

Add 30 to 50 g of Sanguina per horse to the feed daily, preferably moistened. Sanguina herbs are either given for a certain period, around 4 weeks long, or alternated or even combined with other PerNaturam herbal mixtures, such as the Sonnenwend -Immun-kräuter or the HerbaCor mixture.

Analytical constituents: Crude protein 9.4%, crude fats 5.8%, crude fibre 27.8%, crude ash 6.5%.

Minerals: Calcium 1.07%, phosphorous 0.23%, sodium 0.03%.



Size	Item no.
500 g	208033
1 kg	208034
3 kg	208035



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	Kolloidales Silberwasser (colloidal silver water)	42 · 59			
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A			
Item no.	Product name	Unit	Price*
208021	Adstringa Gerbstoffkräuter (tannin herbs)	500 g	€12.50
208022	Adstringa Gerbstoffkräuter (tannin herbs)	1 kg	€21.00
208023	Adstringa Gerbstoffkräuter (tannin herbs)	3 kg	€54.00
206018	Ägyptischer Schwarzkümmel (Egyptian black cumin)	1 kg	€12.00
206019	Ägyptischer Schwarzkümmel (Egyptian black cumin)	3 kg	€29.50
201004	Aerob-Öl (aerob oil)	25 ml	€16.00
201002	Aerob-Öl (aerob oil)	50 ml	€29.00
201003	Aerob-Spray (aerob spray)	250 ml	€19.70
203503	AkaHorse	500 ml	€20.50
203502	AkaHorse	2.5 l	€72.50
203012	Aloe vera-Spray (Aloe vera spray)	200 ml	€18.50
208018	Amara Bitterkräuter (bitter herbs)	500 g	€12.50
208019	Amara Bitterkräuter (bitter herbs)	1 kg	€21.00
208020	Amara Bitterkräuter (bitter herbs)	3 kg	€54.00
208009	Anis-Kümmel-Fenchel (anise-caraway-fennel)	1 kg	€21.00
208030	Anis-Kümmel-Fenchel (anise-caraway-fennel)	2.5 kg	€45.00
202021	Apfelessig 10%-ig (apple cider vinegar)	2.5 l	€10.00
202006	Apfel-Pellets (apple pellets)	5 kg	€14.00
202007	Apfel-Pellets (apple pellets)	10 kg	€25.00
B			
208011	Balsama	500 g	€12.00
208005	Balsama	1 kg	€18.50
208006	Balsama	3 kg	€49.00
202008	Bierhefe, reine (pure brewer's yeast)	3 kg	€18.50
206006	Brennesselkraut (stinging nettle herbs)	2 kg	€16.50
210013	Bio-Brennnesselsaft (organic stinging nettle juice)	3 l	€28.00
208010	Bronchosan®	500 g	€12.00
208003	Bronchosan®	1 kg	€18.50
208004	Bronchosan®	3 kg	€49.00

C			
Item no.	Product name	Unit	Price*
210012	Bio-CrataeHorse	250 ml	€22.00
	Bio-CrataeHorse	2x250 ml	ea. €19.80
202026	Bio-Curcuma-Myrrhe-Öl (organic turmeric and myrrh oil)	250 ml	€39.00
	Bio-Curcuma-Myrrhe-Öl (organic turmeric and myrrh oil) scaled pricing from	2x250 ml	ea. €35.10
D			
202014	Dezidum® (base powder)	750 g	€17.50
202018	Dezidum® (base powder)	1.5 kg	€30.00
202019	Dezidum® (base powder)	4 kg	€69.90
E			
212008	Bio-EchinaHorse	250 ml	€22.00
	Bio-EchinaHorse scaled pricing from	2x250 ml	ea. €19.80
212006	Energiekörner-Mischung (energy grain mixture)	1 kg	€19.00
212007	Energiekörner-Mischung (energy grain mixture)	3 kg	€49.50
200006	EquiBasal®	1 kg	€18.00
200001	EquiBasal®	3 kg	€49.50
200002	EquiBasal®	6 kg	€89.00
211001	EquiFertil	500 g	€54.00
212001	EquiForte	1 kg	€21.00
212003	EquiForte	3 kg	€55.00
202001	EquiGaron	500 g	€19.50
202002	EquiGaron	1 kg	€32.00
205007	EquiKPU	600 g	€78.50
205008	EquiKPU	1.8 kg	€198.00
201001	EquiLichmet	500 ml	€29.00
205003	EquiPankrem	500 g	€25.00
205004	EquiPankrem	1 kg	€45.00
202022	EquiZeolon	900 g	€34.00
202023	EquiZeolon	2.5 kg	€85.00
200003	Esparslette (sainfoin)	3 kg	€9.00
200004	Esparslette (sainfoin)	5 kg	€14.00
200005	Esparslette (sainfoin)	10 kg	€26.00
201005	Bio-Expectorant (Organic Expectorant)	250 ml	€22.00
	Bio-Expectorant (Organic Expectorant) scaled pricing from	2x250 ml	ea. €19.80

* All prices shown are inclusive of VAT, plus postage (see page 4)



F			
Item no.	Product name	Unit	Price*
207018	Flora Islandica Hochweide (highland pasture)	500 g	€12.50
207014	Flora Islandica Hochweide (highland pasture)	1 kg	€21.00
207015	Flora Islandica Hochweide (highland pasture)	3 kg	€54.00
Flora Islandica Hochweide (highland pasture) scaled pricing from		3 x 3 kg	ea. €48.60
207019	Flora Islandica Fjordweide (fjord pasture)	500 g	€12.50
207016	Flora Islandica Fjordweide (fjord pasture)	1 kg	€21.00
207017	Flora Islandica Fjordweide (fjord pasture)	3 kg	€54.00
Flora Islandica Fjordweide (fjord pasture) scaled pricing from		3 x 3 kg	ea. €48.60
G			
206015	Ginkgo	1 kg	€20.00
H			
206025	Hagebutten (roseships), crushed	2 kg	€20.00
206030	Hagebutten (roseships), crushed	6 kg	€54.00
206004	Hagebutten (roseships), whole	2 kg	€20.00
206029	Hagebutten (roseships), whole	6 kg	€54.00
210001	Hanf-Öl (hemp oil)	500 ml	€19.90
Hanf-Öl (hemp oil) scaled pricing from		3 x 500 ml	ea. €17.90
203007	Haut-Balsam (skin balm)	300 ml	€21.00
208024	Heparlind®	500 g	€12.50
208025	Heparlind®	1 kg	€21.00
208026	Heparlind®	3 kg	€54.00
208016	HerbaCor	500 g	€12.00
208014	HerbaCor	1 kg	€18.50
208015	HerbaCor	3 kg	€49.00
202015	HerbeVisceral	500 g	€12.50
202016	HerbeVisceral	1 kg	€21.00
202017	HerbeVisceral	3 kg	€54.00
203009	Herbazem Forte	1 kg	€26.00
203010	Herbazem Forte	2.5 kg	€55.00
250000	Herbst-Kräuter-Paket (autumn herbal pack) Contains 1 kg of each of the 3 mixtures: - Sonnenwend-Immunkräuter (solstice immune herbs) - Bronchosan® - Schwäbische Alb-Mischung (Swabian Alb mixture)	3 x 1 kg	€48.00
209002	Hortus Gemüse- und Früchte-Mischung (Hortus vegetable and fruit mixture)	3 kg	€29.00
209003	Hortus Gemüse- und Früchte-Mischung (Hortus vegetable and fruit mixture)	10 kg	€79.00
203002	Huf-Fell-Perfekt (hoof-coat-perfect)	1 kg	€30.00
203003	Huf-Fell-Perfekt (hoof-coat-perfect)	2.5 kg	€68.00
I			
500017	Imker Balsam (beekeeper's balm)	60 ml	€10.00
206003	Ingwer (ginger)	1 kg	€21.50
206001	Isländisch Moos (Icelandic moss)	500 g	€19.50

K			
Item no.	Product name	Unit	Price*
207012	Klostergarten (monastery garden herbs)	500 g	€12.00
207001	Klostergarten (monastery garden herbs)	1 kg	€18.50
207002	Klostergarten (monastery garden herbs)	3 kg	€49.00
207022	Klostergarten (monastery garden herbs)	10 kg	€138.00
206021	Knoblauch-Granulat (garlic granules)	1 kg	€11.50
206022	Knoblauch-Granulat (garlic granules)	3 kg	€29.00
500001	Kolloidales Silberwasser (colloidal silver water 50 ppm)	100 ml	€14.00
500002	Kolloidales Silberwasser (colloidal silver water 50 ppm)	250 ml	€24.90
500013	Koll. Silberwasser-Spray (colloidal silver water spray 50 ppm)	100 ml	€16.00
210011	Bio-Koriander-Propolis-Öl (organic coriander propolis oil)	250 ml	€39.00
203006	Kräuter-Balsam (herb balm)	300 ml	€21.00
250003	Kräuter-Paket (herbal pack) 500 Contains 500 g of each of the 3 mixtures: - Ostpreußen Kräuter (Ostpreußen herbs) - Lüneburger Kräuter (Lüneburg herbs) - Schwäbische Alb-Mischung (Swabian Alb mixture)	3 x 500 g	€32.00
250002	Kräuter-Paket (herbal pack) 1.000 Contains 1 kg of each of the 3 mixtures: - Ostpreußen Kräuter (Ostpreußen herbs) - Lüneburger Kräuter (Lüneburg herbs) - Schwäbische Alb-Mischung (Swabian Alb mixture)	3 x 1 kg	€48.00
L			
205009	Leberpellets (liver pellets)	1 kg	€29.00
205010	Leberpellets (liver pellets)	2.5 kg	€59.00
203001	Lecithin mit Kieselerde (lecithin with silica)	2.5 kg	€35.00
202024	Bio-Löwenzahnsaft (organic dandelion juice)	250 ml	€14.00
202025	Bio-Löwenzahnsaft (organic dandelion juice)	500 ml	€27.00
207011	Lüneburger Kräuter (Lüneburg herbs)	500 g	€12.00
207003	Lüneburger Kräuter (Lüneburg herbs)	1 kg	€18.50
207004	Lüneburger Kräuter (Lüneburg herbs)	3 kg	€49.00
207009	Lüneburger Kräuter (Lüneburg herbs)	10 kg	€138.00
M			
206026	Meerrettich (horseradish)	1 kg	€19.00
206027	Mönchspfeffer (monk's pepper)	1 kg	€17.00
205005	MycoProtekt®	500 g	€17.50
205006	MycoProtekt®	1 kg	€29.70
203011	Myrrhe-Propolis Spray (myrrh and propolis spray)	100 ml	€29.50
500007	Myrrhe-Propolis Tropfen (myrrh and propolis drops)	50 ml	€19.50
O			
209009	Orgamin®, loose	1 kg	€12.00
209005	Orgamin®, loose	3 kg	€33.00
209006	Orgamin®, loose	10 kg	€89.00
209010	Orgamin®, pelleted	1 kg	€13.00
209007	Orgamin®, pelleted	3 kg	€35.00
209008	Orgamin®, pelleted	10 kg	€98.00

* All prices shown are inclusive of VAT, plus postage (see page 4)

O			
Item no.	Product name	Unit	Price*
204001	Ortho-Perna-San	500 g	€39.50
204002	Ortho-Perna-San	1 kg	€71.00
207013	Ostpreußen Kräuter (Ostpreußen herbs)	500 g	€12.00
207007	Ostpreußen Kräuter (Ostpreußen herbs)	1 kg	€18.50
207008	Ostpreußen Kräuter (Ostpreußen herbs)	3 kg	€49.00
207020	Ostpreußen Kräuter (Ostpreußen herbs)	10 kg	€138.00
212004	OxyProtekt	500 g	€32.00
212005	OxyProtekt	1 kg	€54.00
P			
205014	Peloid-Pellets	1 kg	€21.00
205015	Peloid-Pellets	3 kg	€55.00
208039	Petrophagus	1 kg	€21.00
Petrophagus	scaled pricing from	3 x 1 kg	ea. €18.00
R			
210003	Reiskeim-Öl (rice germ oil)	500 ml	€19.90
Reiskeim-Öl (rice germ oil)	scaled pricing from	3x 500 ml	ea. €17.90
205016	Resin <i>forte</i>	250 g	€35.00
205017	Resin <i>forte</i>	500 g	€63.00
206012	Ringelblume (marigold)	500 g	€17.00
208027	Rhenalind® Nierenkräuter (kidney herbs)	500 g	€12.50
208028	Rhenalind® Nierenkräuter (kidney herbs)	1 kg	€21.00
208029	Rhenalind® Nierenkräuter (kidney herbs)	3 kg	€54.00
206017	Roter Sonnenhut (purple coneflower)	1 kg	€17.00
S			
208033	Sanguina	500 g	€12.50
208034	Sanguina	1 kg	€21.00
208035	Sanguina	3 kg	€54.00
207010	Schwäbische Alb-Mischung (Swabian Alb mixture)	500 g	€12.00
207005	Schwäbische Alb-Mischung (Swabian Alb mixture)	1 kg	€18.50
207006	Schwäbische Alb-Mischung (Swabian Alb mixture)	3 kg	€49.00
207021	Schwäbische Alb-Mischung (Swabian Alb mixture)	10 kg	€138.00
209001	Seealgenmehl (seaweed powder)	3 kg	€30.00
Seealgenmehl (seaweed powder)	scaled pricing from	3 x 3 kg	ea. €27.00
208012	Seniorsan	500 g	€12.00
208007	Seniorsan	1 kg	€18.50
208008	Seniorsan	3 kg	€49.00
205001	SilyCholin	500 g	€46.00
205002	SilyCholin	1 kg	€79.50
208013	Sonnenwend-Immunkräuter (solstice immune herbs)	500 g	€12.00
208001	Sonnenwend-Immunkräuter (solstice immune herbs)	1 kg	€18.50
208002	Sonnenwend-Immunkräuter (solstice immune herbs)	3 kg	€49.00

S			
Item no.	Product name	Unit	Price*
206014	Spitzwegerich (ribwort plantain)	1 kg	€17.00
208036	Stutenkräuter (mare herbs)	1 kg	€19.50
208037	Stutenkräuter (mare herbs)	3 kg	€53.00
206005	Süßholzwurzel (licorice root)	1 kg	€17.00
T			
202003	Terrasan	1 kg	€15.00
206002	Teufelskralle (devil's claw)	1 kg	€29.00
206007	Thymian (thyme)	1 kg	€17.00
202011	TopiMal	5 kg	€21.00
202012	TopiMal	10 kg	€39.00
208041	Toscana Mischung (Toscana mix)	500 g	€12.50
208042	Toscana Mischung (Toscana mix)	1 kg	€21.00
208043	Toscana Mischung (Toscana mix)	3 kg	€54.00
220001	Transformin	1 l	€19.00
U			
993001	laboratory faecal test		€29.50
993003	laboratory KPU test		€55.00
V			
203500	Velvet-Coat	900 g	€35.00
203501	Velvet-Coat	2.5 kg	€84.00
210008	Velvet-Öl (velvet oil)	500 ml	€28.00
Velvet-Öl (velvet oil)	scaled pricing from	3 x 500 ml	ea. €25.20
W			
208044	Waldweide (forest pasture)	1 kg	€12.00
208017	Waldweide (forest pasture)	5 kg	€45.00
208031	Waldweide (forest pasture)	10 kg	€80.00
206016	Weidenrinde & Mädesüß (willow bark & meadowsweet)	1 kg	€16.00
206028	Weidenrinde & Mädesüß (willow bark & meadowsweet)	3 kg	€39.50
206023	Wildbeeren (wild berries)	1 kg	€15.00
206024	Wildbeeren (wild berries)	3 kg	€35.00
202004	Wurmkräuter (worming herbs)	1 kg	€21.00
202005	Wurmkräuter (worming herbs)	3 kg	€54.00
202013	Wurmkräuter (worming herbs)	10 kg	€159.00

* All prices shown are inclusive of VAT, plus postage (see page 4)

We are happy to help!

**Do you have any questions about our products?
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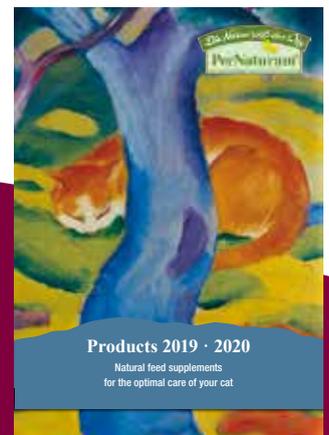


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Franz Marc (1880 -1916) developed his own view of the world. He is the most important representative of German Expressionism. With co-founder Wassily Kandinsky, he established the artists' group known as the Blue Rider (*Blauer Reiter*). Marc was fascinated by animals, especially horses, and used to work in the actual paddocks. He studied colour impressions, light reflections and rhythms. His paintings of animals are not simplistic, but refined compositions that express the situation and mood. The lines and shapes allow the viewer to be drawn into the picture and through the landscape. Franz Marc was a great artist who embodied a new kind of visual perception and whose vision can still teach us a lot today.

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