



**R Röhnfried®**

**Courier  
2024**

**[www.roehnfried.com](http://www.roehnfried.com)**



# Röhnfried - by your side

## Dear sports friends,

For over 70 years, the Röhnfried brand has been a companion in the fascinating world of pigeon breeding and racing in our beloved hobby. Our longstanding presence in pigeon racing, with all its facets, has made us a nationally and internationally established name among fellow sports enthusiasts. We take pride in sharing the fascination of pigeon racing with you.

Our products and the proven care concept from Röhnfried are designed to provide optimal support to breeders like you. We understand that only healthy pigeons can achieve top performances and produce strong, resilient offspring. In this regard, we are here for you, offering our practical experience and products specially tailored to the needs of pigeons.

At Röhnfried, the principle is clear: No product without effect. Each of our products has a distinct benefit, whether it's in health prevention, performance enhancement, or recovery after high stress. We firmly believe that prevention is better than cure. A healthy pigeon management is the key to successful races and the healthy, resilient development of your future champions.

Health and performance are the guiding principles that Röhnfried has pursued for decades in the service of pigeons and their breeders. Our products are not only health-promoting and performance-enhancing but also adapted to the specific requirements posed by pigeon racing.

We would like to express our gratitude for your trust in our products and look forward to continuing to accompany you on your journey.

With pigeon racing greetings,

**Your Röhnfried Team**



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### Explanation of symbols:



To be administered over the feed



To be administered in the water



Single bird application

# Feeding plan for moulting

**What was that saying? After the match is before the match? In terms of our racing pigeons, what this means is that the preparations for a successful racing season start as soon as the previous season is over.**

With regard to moulting, it is then of course clear that you should be working to ensure that moulting of the covert feathers and small feathers goes as smoothly as possible. So what specifically can we watch out for, particularly when it comes to looking after our key players? One thing is definitely beyond dispute: because the plumage changes during the moult, the racing pigeon has a greatly increased need for the sulphur-containing amino acids methionine and cystine. Because the feather consists of around 8% of these sulphur-containing amino acids. That is extremely high! So to form new feathers, the necessary building materials must be furnished in feed. If you analyse the contents of commercially available grain mixtures, you quickly see that the respective contents of the important amino acids methionine and cystine are generally less than 0.2%, an extremely low value. This is not enough to cover the increased demand during moulting. In many special moulting mixtures, the level isn't really much higher, although that is indeed what you would expect where moulting is concerned.

As a consequence, the building blocks required for feather growth have to be obtained from greater quantities of feed. In other words, the pigeons have to consume more feed, which in turn quickly leads to obesity caused by the larger amounts of feed and resulting increased energy intake. But this should be avoided, because to ensure the most successful breeding, any weight that is put on unnecessarily will have to be lost again, at the latest before the start of breeding. Pigeons with an ideal diet can always be recognised from their balanced body weight, even in winter or during and after moulting. This in my opinion is where the "wheat is separated from the chaff".

Because the amount of feed consumed per day is limited – well-fed pigeons consume an average of plus or minus 35 grams of feed per day – the moulting period is extended. Now that is



not a bad thing in itself – except for the fact that the pigeons will react to any deficiency by increasing their feed intake, reducing their performance and leading to obesity. On the other hand, given the modern method of keeping young pigeons in darkened conditions, a quick moult is especially welcome. To help pigeons manage the moult despite the low levels in the grain feed, the feed can be supplemented with suitable moulting supplements. The main factor to focus on here is the level of the amino acid **methionine**, which in the liquid feed additive **Taubengold**, for example, is particularly high at 2%.

For a comparison with powdered moulting aids, it is not only the content, but also the dosage that must be taken into account. Under the European regulation governing feed, the methionine content must be stated, making it easy for any breeder to compare quality. Products without this information should be avoided, as there is simply no way to judge their quality and value for money.

Supplementary feeding of sulphur flowers (powdered sulphur), which is still recommended today, will unfortunately get you nowhere, because the pigeon cannot make use of the sulphur they contain. In the animal's body, sulphur is not incorporated into the its own amino acids or proteins.

Regardless of which moulting aid (methionine source) you choose, it should be given to your pigeons as regularly as possible. This is because the pigeon can only store limited amounts







of these important amino acids. Its feathers, however, grow every day, and therefore require a regular supply of the building blocks needed for growth. Convenient methods of supplementary feeding are the drinking trough or the grain feed. Supplementary feeding from the trough has the advantage that most breeders nowadays clean their trough daily, ensuring an extremely good level of hygiene. If done with the feed, you must ensure that the feed trough is cleaned thoroughly on a regular basis, but this is something I see less often in practice. In addition to the feeding of methionine, vitamins should also be given on a regular basis during moulting, because of the enormous strain it places on the body. This bolsters the metabolism. Today, breeders are often offered special moulting packages for this purpose, so you should keep an eye on the vitamin supplements on offer. With its very high content of all vitamins, **Gervit-W®** is particularly well suited to supporting moulting in this phase. The provision of premium minerals is another factor that should not be neglected here. There are many different mineral mixtures available these days, some enriched with additives that stimulate the gut in addition to their minerals and trace elements. Wherever possible, feeding should be daily and in smaller quantities. This is the only way to encourage the pigeon to consume the amounts needed more often. It is best to adjust the amount to the pigeons' needs by giving only as much as will be consumed by the next day. This encourages the pigeons to ingest these vital minerals on a daily basis.

While I don't actually really need to mention it, you do of course also have to monitor the health of your pigeons in addition to ensuring the supply of vital nutrients. For preventive health monitoring, acid combinations via the drinking trough have

proven very effective. Incidentally, acids can also be administered very well with amino acid supplements in the trough. The few effective acid supplements prevent pathogenic germs from further multiplying via the trough. Veterinarians are increasingly seeing that in populations where administration is on a daily basis, trichomonads and other bacteriological findings can no longer be detected in crop smear tests. This makes genuine preventive health maintenance possible that is both extremely simple and relatively inexpensive.

Finally, I would like to again emphasise that a quick and problem-free moult is the foundation for a successful racing season. Because after all, feathers are our pigeons' tools of the trade, so we should certainly make an effort to ensure that our pigeons get through this important phase of their lives as best they can.

Your Röhnfried Team

Product	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Taubengold 	x	x		x	x	x	
Kräuter-Gemüse-Mix 	x			x		x	
Avidress Plus 	x	x		x	x	x	
Gervit-W® 			x				x



# Feeding concept breeding

The quality of young pigeons is a direct consequence of optimum nutrition. What's crucial for breeding is whether the performance potential can develop to the full. For this reason, it's not enough to invest in the best and healthy parents, you must also ensure that the breeding animals receive the best possible nutrition at all times. With the feeding concept outlined below you leave nothing to chance. The result of these efforts are perfectly developed young pigeons. The feeding concept is based on a reduced amount of the difficult-to-digest peas and instead includes more high-quality and easily digestible toasted soy beans and seeds such as hemp, which are rich in valuable linoleic and linolenic acids. The optimised feeding

concept also includes as vitamins, minerals, trace elements and amino acids for best breeding performance. Especially when preparing for breeding the focus should be in administration of vitamin E.

**Note:** Gradually convert to breeding food before breeding no later than 5 days prior to coupling. After egg laying and until shortly before hatching up to 50% winter food can be fed.






**Winter breeding:** Especially during the cold time of the year, the optimised feeding concepts will promote regular egg laying, high fertilisation and hatching rates as well as a healthy and quick development of the young. ■



„During the rearing of the young, I regularly administer **Oregano-Schaffett** together with **Immunbooster**. This ensures that old breeding pigeons stay in the best breeding condition even at very cold temperatures and that the young build up a good immune system“.

*Alfred Berger*



Product	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
OptiBreed 		x			x		
Immunbooster 		x			x		
Avidress Plus 	x	x		x	x		x
Mineraldrink 			x			x	
Gervit-W® 		x			x		





# Feeding concepts winter/rest

The winter is suitable to bring the birds into an optimal condition for breeding or travelling after moulting. Vaccinations are also carried out in winter. Only with a sufficient supply of all essential nutrients a sufficient vaccination effect (formation of immunoglobulins (antibodies)) can take place. This includes long-term, optimised feeding and a phased administration of supplementary feeds that support the immune system. The feeding concept for the winter phase is also based on a diet rich in dietary fibre with a high proportion of satiating raw fibres. The protein content is reduced in order to avoid meta-

bolic stress. The dosed supply of vitamins and trace elements in winter corresponds to optimal preparation, especially before and after vaccinations. In addition, sensible drinking water hygiene should also be part of the treatment of each feeding concept in the rest and winter time.






**Note:** After moulting until mating, feeding should be as short as possible. ■



„The pigeons stay with the products of Röhnfried healthier. Since I give **Avidress Plus** and **UsneGano**, I have no more burden with trichomonads.“

*Albert Derwa*



Product		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Moorgold		x		x			x	
Kräuter-Gemüse-Mix		x					x	
Entrobac				x				
UsneGano					x			x
Avidress Plus		x	x	x	x	x	x	x



# Feeding concept young birds/weaning phase

Young birds in the weaning phase (up to six weeks after weaning): Young pigeons approx 21 to 24 days old (weaning phase) still need plenty of high-quality protein. To ensure optimum development, young birds should continue to be fed a protein-rich diet in the first few weeks of their life.

Once they shed their down feathers or the young birds begin to 'pull', they can be fed a lighter, energy-rich mixture. For optimum moult of cover feathers, young winter birds should continue to receive optimised breeding or young pigeon feed during the darkening phase. This needs to be supported, both

actively and passively, so the birds develop a strong immune system. Beta-glucans, powdered cellulose and plant extracts are ideal for this purpose






**Note:** Special care must be taken with young pigeons to ensure that all components are absorbed. Young birds should also learn to eat corn. Young birds in the weaning phase (up to six weeks after weaning) and darkening phase. If pigeons are to be darkened, the 'Moulting' feeding concept is recommended in the darkening phase. ■



"After weaning, our young birds are given **Avidress Plus** every day and **Hexenbier** (witches brew) and **Immunbooster** are administered twice a week in the feed. This gives the immune system an ideal boost and sets it up best for the future."

*Roland and Denis Faber*



Product		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Hexenbier		x		x			x	
Immunbooster		x		x			x	
Mineraldrink			x			x		
UsneGano		x		x			x	
Avidress Plus		x		x	x		x	x






# Feeding concept young pigeons/training phase

Young pigeons in the training phase (at the latest 6 weeks before the pre-flights): If the young pigeons should not intensively „pull“, the health (Trichomonaden, intestinal parasites, bacterial general infections etc.) must be controlled.

At the beginning of the training phase the youngsters should already be accustomed to the training basket. A lighter mixture is recommended as food to get the pigeons „to pull“. If an increased joy of flying has then taken place, this must be taken into account in the form of a supplement of fat-containing grains.


If the young don't „pull“ despite their best health, we recommend to add **Carni-Speed** to the drinking water over 7 days and additionally daily **Hexenbier**. Afterwards the pigeons should show a pronounced joy of flying.






As soon as the training phase begins, the infection pressure should be reduced and the immune system strengthened from the intestine. Once the pre-flights have been completed, the feeding concept of the old pigeons should be adopted. ■



„After the pre-flights and price flights, all our pigeons, including the youngsters, are fed **Hexenbier** together with **Immunbooster** and **Entrobac**. With this we want to achieve that after the flight the intestine is immediately strengthened again.“

*Tim and Uwe Müller*



Product		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Moorgold		x		x		x		x
Immunbooster		x		x		x		x
Entrobac		x		x		x		x
UsneGano			x		x		x	
Avitestin		x	x	x	x	x	x	x





# Röhnfried's 7-point plan for the racing season

This feeding concept was developed for breeders who wish to feed their pigeons with complete safety while taking advantage of specific preparations that promote performance and health.

**The following destinations should be pursued during the journey over the course of the week:**

## 1. Accelerating regeneration

**Carbohydrates** – Regenerate faster after strenuous flights thanks to **Mumm** and **Rot-osal**: The combination of energy supplier and essential minerals supports the metabolism and replenishes reserves.

**Proteins** – Protein stimulates muscle protein synthesis. Even after training or a race. We use highly concentrated animal protein from **K+K Protein 3000** to restore and maintain tissues and muscles the day after the flight.

**Amino acids** – We use **Bt-Amin® forte** to replenish the amino acid stores immediately after the flight. It contains essential amino acids in high dosage and at the same time covers the B-vitamin requirement without unnecessarily burdening the metabolism.

## 2. Reduce infection pressure

**Prevention is better than cure** – We use **Avidress Plus** to disinfect drinking water: The pH value of the water is lowered and the infection pressure is reduced in combination with **UsneGano**.

## 3. Strengthening immunity

**Improve immune competence** – The 1,3 -1,6 β-glucans contained in the **Immunbooster** activate the immune system and strengthen the immune system of the pigeons.

**Probiotics** – Health from the intestine - Probiotic bacteria in **Entrobac** improve the intestinal flora and increase the resistance of the pigeons.

## 4. Stimulating the metabolism

**L-Carnitine and Iodine** – The trace element iodine regulates the metabolism in the thyroid gland. Together with the vital substances in **Hexenbier**, the boosters for immune defence, down mice and shape enhancement contain at the beginning of the week. On top, the potential of the muscles is fully exploited with the help of L-Carnitine (**Carni-Speed**): the pigeons tire much more slowly and the training behaviour is visibly improved.

## 5. Replenishing vitality reserves

**Vital substances** – In order to meet the increased demands on the metabolism, the pigeons need additional minerals and vitamins. We recommend a dose of **RO 200 ready** at the end of the week.

## 6. Keeping the airways free

**Probiotics** – small helpers, big effect. After express stays, it has proved successful to treat the mucous membranes with **Avisana**: The pigeons have bright white noses and clean throats.

**Forces of nature** – Especially before hot flights, but also before the start of the season, it makes sense to keep the respiratory tract clear from the inside with vegetable oils and herbal mixtures such as **Avimycin forte** and **Atemfrei**.

**Freed breathing** – Pigeons orient themselves in their home area according to their sense of smell. Therefore it is important to send them with free airways on the races. **Rozitol** cleanses the noses and promotes the elimination of stuck mucus.

## 7. Optimised mineral supply

**Minerals and trace elements** – In addition to the goals described above, a continuous and optimally coordinated supply of minerals should be a matter of course. The daily administration of **Reisemineral** together with **Grit mit Anis** and **Leckerstein®** guarantees an optimised supply of minerals and trace elements.

*Info:*

Our feeding concepts for a successful season can be found on pages 58 to 61.



# Products 2024

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## IMPRINT

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# Rotosal



■ Regeneration ■ Liver relief ■ Improving performance

**250ml Bottle** Art.-No. 11417

**Rotosal** is a liquid feed supplement based on organic phosphor and oligosaccharides to quickly counter phosphor and energy deficits before and after long-distance races and general stress such as after treatments, moult and breeding. The Butafosfan it contains provides liver relief, which in turn leads to improved performance during the race. **Rotosal** is stable in the trough for more than 8 hours and is mainly used to accelerate regeneration.

## Feeding recommendation:

For feeding with drinking water or with grain feed. **Before and after stresses:** 5 ml for 20 pigeons. **After intense stress:** 10 ml for 20 pigeons. **Moult/breeding:** 2-3 times a week 5 ml for 20 pigeons. Fresh drinking water daily.

**Tip:** 5 ml **Rotosal** for 20 pigeons as the last meal before a flight (e.g. peeled sunflower seeds) with feed.



Race



Fast effect



Accelerated regeneration

## Information

**Butaphosphan has become an important component in racing pigeon supplies, as it improves their physical condition before the flight and accelerates their regeneration following the race.**

After races lasting over two hours, we recommend the additional feeding of organic phosphorus butaphosphan to accelerate the regeneration of metabolic by-products. Butaphosphan has been used in livestock farming for many years for liver relief and regeneration after physical exertion. Especially after medium to severe exhaustion, one should be able to see how quickly the pigeons overcome physical strain and regenerate themselves. ■



*Albert Derwa*

"I administer **Rotosal** through the drinking trough every week two days before action!"

"**Rotosal** is essential for quick recovery after a flight."



*Davy Tournelle*

"Investment for the second half of the season. **Rotosal** supports recovery allowing the pigeons to get a head start week in and week out."



*SG Fuchs & Wolf*

"I use **Rotosal** at least two days a week. Usually my pigeons get it on Tuesday and Wednesday if Thursday is race day. Sometimes they get it the day after the flight too."



*Ronny Menten*



# 1 Bt-Amin® forte



■ Amino acids ■ B vitamins ■ Electrolytes

1000ml Bottle Art.-No. 11642

**Bt-Amin® forte** contains high doses of amino acids, electrolytes and B-vitamins in a defined composition. The essential amino acids are readily available and are thus during medication treatments and in the travel time an optimal relief. The numerous high-dose B vitamins are essential for blood formation and nerve tonic during the travel season.

## Feeding recommendation:

15 ml per litre of drinking water. **While medication cures** daily. In the first drinker on flight day. In the **moulting season** 3 times per week.



Race



Fast Effect



Moulting

## Information

**Amino acids are the basic building blocks of proteins.** There are a great number of amino acids, but for pigeons only 20 different amino acids are used for protein synthesis. Not all of these amino acids can be produced by the pigeon itself. These so-called essential amino acids, such as methionine, lysine, tryptophan or threonine, play a significant role in the formation of hormones, blood, muscles, tendons and feathers, and must be ingested with feed. Free amino acids – such as in Bt-Amin forte – can be absorbed directly into the blood and are immediately available to the metabolism. In addition, they do not impair the digestive tract and liver, and can therefore support regeneration immediately after flight by repairing the smallest muscle injuries that have occurred. The latest studies show that pigeons provided with a supplement of methionine and lysine develop longer intestinal villi, giving them better feed conversion and immunity.

In addition to supplementing amino acids, the use of B vitamins is also recommended after periods of stress (e.g. races, administration of medication). These water-soluble vitamins have very important functions in various metabolic processes, such as energy production in muscle cells, the build-up of muscle and blood formation. ■



*SG Ulbrich*

"**Bt-Amin® forte** gives our pigeons a special boost for fast recovery after each flight."

"For us nothing can replace **Bt-Amin® forte** in the recovery phase."



*SG Faber*

"Only well-recovered pigeons can reach new heights and therefore the correct use of **Bt-Amin® forte** is essential."



*SG Becker*

"**Bt-Amin® forte** combines recovery and peak performance in a single product."



*SG Krouss-Grotzsch*

# 1 Proteins

## *Accelerating regeneration*

**Maintaining or restoring the health of tissues such as the muscles and tendons as well as the inner organs, the blood and liver is our second priority in the course of the week.**

Therefore, it is of utmost importance to feed readily digestible protein in substantial amounts on the day following a competitive flight. Aside from observations, there are also scientific data on the protein metabolism in pigeons. They were gathered by Professor Haas from the University in Kiel (Germany). On the day after a competitive flight, analyses of pigeon blood reveal a marker for the catabolism (decomposition) of muscle tissue. This marker is not present immediately after the competitive flight, i.e. muscle tissue (protein) is not catabolised during the competition. However, on the day after the competitive flight – when the quickly replenishable energy reserves (glycogen) are already filled up again – some kind of ‘metabolic review’ takes place in the organism of the pigeons. As part of the musculoskeletal system regeneration the body renews the structure of muscle fibres. To accomplish this, the body needs available amino acids (AAs) to serve as building blocks. The different essential amino acids must be available in properly balanced and sufficient amounts. Still, this complex requirement can be easily met. The best suited protein sources are animal protein or mixtures of plant and animal protein with those amino acids added, which limit the protein biosynthesis.

Under no circumstances should you feed large amounts of protein on the day the pigeons fly. In such a case, the metabolism would first generate the required energy using the protein. Protein cannot be completely metabolised. This leads to the accumulation of considerable amounts of ammonia. Since ammonia is cytotoxic, this leads to a condition often referred to as ‘blue blood’. The body eliminates ammonia by turning it into urea and uric acid, which will be eliminated via the urinary tract. These processes require energy and are therefore an unnecessary burden on

the metabolism. Longer recovery periods will be the result. These counter-productive processes can be avoided by implementing the recommendations for the energy recovery phase and the protein recovery phase in the above time sequence.

**i** Feeding electrolytes and shortchain amino acids is yet another way to speed up the recovery. Electrolytes are essential for the acid-base balance and they furnish needed salt. Since pigeons like other birds do not have sweat glands, electrolytes are not depleted in flight. Therefore, electrolytes are more important in the preparation for the next competition starting about mid-week until the end of the week.

The scientific literature confirms the importance of amino acid (AA) supplements in the recovery process. In contrast to feeding protein-rich grains or ‘modern’ protein powders, the respective supplements merely provide specific AA and/or short-chain AA compounds, which are often given in the drinking water. In flight, the latter supplements do not stress the metabolism like the supplementation with protein. Instead, these AAs and short-chain AA compounds support the recovery after stress and lighten the load for the liver. ■





# K+K Protein® 3000

■ Multi-protein ■ Muscle development ■ Immune support

500 g Can Art.-No. 11613

**K+K Protein 3000** is an easily digestible protein concentrate made from animal and plant proteins with a crude protein content of 65 %. In addition to muscle development **K+K Protein 3000** supports digestion with the siliceous and healing earth it contains. **K+K Protein 3000** also contains valuable immunoglobulins which support the immune system and thus strengthen the body's defences after the flight. The added limiting amino acid methionine ensures smooth protein metabolism and excellent plumage development during the moult.

## Feeding recommendation:

**Racing season:** 4 meals starting on the day of return, two measuring spoons (20 g) per 500 g feed. Can be fed together with **Entrobac** and **Avimycin forte**. **Breeding and moulting period:** 4 meals per week.

# K+K Gold Dragees

■ Individual feeding ■ Muscle building ■ Recovery/Regeneration

100 Tablets Art.-No. 11636

**K+K Gold Dragees** contain easily digestible animal protein, obtained from high-quality fish and whey protein, as well as methionine, lecithin and magnesium for the rapid regeneration of travel pigeons. The tablet hardly burdens the metabolism and is therefore ideally suited as an individual supply for late returnees or heavily flown pigeons.

## Feeding Recommendation:

One coated **K+K Gold Dragees** (0.54 g) per pigeon after the race.



Regeneration



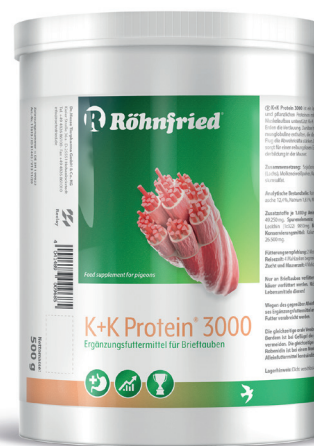
Digestion



Growth



Race



Long-term effect



Growth



Race



# 2 Aidress® Plus

■ Prevent canker ■ Healthy pigeons ■ Inforce metabolism

1000 ml Bottle Art.-No. 11145 | 5 litres Art.-No. 11146

**Aidress® Plus** contains short-chain acids that lower the pH value of the drinking water to such an extent that the risk of infection is also lowered. It also contains minerals, trace elements, oregano and cinnamon. This mix together with the acids makes the metabolism more efficient. Pigeons looked after this way are simply healthier.

**Experiences:** Many vets who specialise in pigeons confirm that there is rarely any evidence of pathogenic organisms (trichomonads & bacteria) in the crop smear of pigeons fed with Aidress Plus.

## Feeding recommendation:

Administer daily throughout the year during racing season, breeding, moult and rest time: 10 ml (1 dosage) per 2 litre of drinking water. Administration of medicines at the same time should always be discussed with a vet first. The dose size in the bottle neck is 10 ml. **Aidress® Plus** can be mixed with **Carni-Speed**, **UsneGano** and **Entrobac** without a problem. Shake before use!



With active formula



Hygiene



Long-term effect

## Information

**The reduction of the pH to a value of 4.5 means, for example, that no trichomonads can proliferate in the drinking trough and that the treatment of these infestations with drugs can therefore be reduced to a minimum.**

Conventional preparations for the acidification of drinking water have a reliable and safe effect in the drinking trough and in the anterior digestive tract. Initially, it was not possible to affect the digestive tract sufficiently as they were neutralised by special buffer substances after the gastric passage. As of this year, there exists the possibility of extending the mode of action with the help of special fatty acids so that the effect reaches far into the small intestine. This mixture of short and medium-chain fatty acids has both a traditional pH-lowering effect and an innovative effect on the intestines against bacteria that are difficult to fight, such as streptococci, staphylococci and clostridia.

# Avitestin

■ Intestinal health ■ Drinking water quality ■ Metabolic efficiency

500ml Bottle Art.-No. 11462

**Avitestin** is a mix of butyric acid and short and medium-chain fatty acids. It reduces the pH level of drinking water and thus reduces the risk of infection with gram-positive bacteria. The high-quality medium-chain fatty acids exert their effect far into the small intestine and promote intestinal health by promoting the growth of the body's own probiotics. The butyric acid it contains is active in the intestine, promotes the growth of villi and therefore improves immune defences. Furthermore, the acids ensure that the drinking water stays fresh for longer and they have a positive effect on the pigeons' metabolism.

## Feeding recommendation:

5 ml with litre drinking water.



Youngsters



Intestinal  
equilibrium



Hygiene

Infection pressure



*"I regularly use **Avitestin** with my fledglings, and I always see it followed by perfect droppings and increased appetite. Thanks to the medium-chain fatty acids, which are proven to be effective against *E. coli* and other bacteria, the pigeons are simply healthier. **Avitestin** also contains butyric acid, which is of particular importance for the intestinal mucosa and why it is very well absorbed by all pigeons. To prepare for the young ones' training flights, I use the product together with **Carni-Speed** over several days to produce a marked increase in their willingness to fly".*

*Alfred Berger*



## 2 UsneGano

■ Oregano ■ thyme oil ■ cinnamon bark oil

250 ml bottle Art.-No. 11250 | 500 ml bottle Art.-No. 11251

**UsneGano** consists of a beardlichen (*Usnea barbata*) tincture and oregano with the natural ingredients usnic acid, carvacrol and thymol. The importance of this unique combination of ingredients is known from the literature. Pigeons who are given **UsneGano** will have firm droppings and bright, white noses shortly after feeding.

### Feeding recommendation:

3 ml/litre drinking water.

Improved  
mixture



100% natural



Intestinal  
equilibrium



Promotes  
digestion

### Information

**Coccidiosis is a common intestinal disease in pigeons caused by coccidia (unicellular intestinal parasites of the genus *Eimeria* spp.).** Pronounced signs of the disease occur particularly in young pigeons, in the form of enteritis (intestinal inflammation) and a weakening of general condition. Adult animals are usually asymptomatic, although they can be latent excretors. In addition to the actual treatment of sick animals, hygiene and optimisation of housing are important cornerstones of control and prevention. Adverse conditions such as stress, hygiene issues, transport, feeding issues, extreme weather conditions and so on can lead to a weakening of the immune system, with a strong proliferation of coccidia as a result. Since much of the immune system is found in the gut, a healthy gut promotes a healthy immune system. Probiotics, prebiotics and/or medicinal herbs provide an effective means of promoting good intestinal health, and therefore the body's defences, with oregano and thyme playing a special role here. These medicinal plants contain particularly valuable constituents such as carvacrol, thymol, terpinene and cymene. The essential oils thymol and carvacrol in particular have an antibacterial effect, stabilise the intestinal flora and the immune system and support digestion. This is supplemented by the synergistic effect of ginger and cinnamon bark, known from the literature for their anti-inflammatory properties.

This means that **UsneGano** can be used to help in the event of infection with coccidia, as it contains valuable oils from oregano, thyme, cinnamon bark and ginger oil.



*Klaus Steinbrink*

"I use **UsneGano** the day after a flight and I see an increase in down moult every time. For me, it's an integral part of coccidia and trichomonas prevention."



*Georg Fröhlingsdorf*

"I use **UsneGano** during moulting and in winter. The pigeons stay energetic and have brilliant white noses."



*Robert Maas*

"My breeding pigeons are given **UsneGano** 365 days a year, which keeps them perfectly healthy, with great droppings and no problems with coccidia."



*SG Tim and Uwe Müller*

"We always give **UsneGano** two meals after a flight. Whenever we do this, you can see that the head plumage is closer."

# 3 Immune competence

## *Boosting immunity*

**More than ever, a high-capacity, activated immune system decides on victory or defeat, or better to say: on absolute top condition with constant top prizes or a normally resilient health.**

In recent years, science has made great progress in understanding how the active and the passive immune system get activated. That's why we use beta-glucans ( $\beta$ -glucans) for the activation of the immune system, which when regularly fed lead to an increased number of immune-competent cells. These cells play an important role in organizing the immune system. Furthermore, it was proved that feeding these  $\beta$ -glucans leads to a higher alert and thus to a significantly faster immune response of the body. This is especially important in situations of high risk of new infections, e.g., during a stay in the basket. It is recommendable to activate the immune system with the help of  $\beta$ -glucans before vaccinations and during the entire youngster period as significantly more antibodies are produced against pathogenic germs. Also, the feeding of these substances causes a significant increase of the phagocytosis, i.e. the removal of pathogenic germs from the cells. This is good reason to feed glucans also during and after the break-out of the infection.

### **Allicins and other vegetable functional substances**

For pigeons, a combination of  $\beta$ -glucans and a mixture of functional aromas proved its value. One of it is the often cited Allicin, the active component of garlic, which is made of the pre-stage Alliin by using the enzyme Allinase. Unfortunately, Allicin is not very stable. At room temperature, it decomposes for instance in liquids like drinking water only after a short time and becomes ineffective. For this reason, technological processing of garlic by freeze drying proved its value. Like this, the stable Alliin can be preserved. After the feeding, Alliin is processed into Allicin which in combination with cinnamon is very effective in combating E. Coli and Salmonellosis. At the same



time, it spares the positive intestinal flora, e.g. Lactobacilli. For a strong immune system, we also trust in feeding intestine active powdered cellulose. It extends the intestinal villi and thus enhances the entire intestine as well as the immune system.

### **The first combination of Allicin and functional supplements**

The **Immunbooster** is a new and unique combination of effective functional plant compounds in synergetic combination with germ reducing supplements. For the first time, these ingredients are combined in one single product. Substances with antimicrobial effects add to the important infection defense. Moreover, the immunity is boosted on several levels by important components which take care of detoxication and of binding toxins in the intestine. Additionally, and especially important after the illness, active iron supports hematois for a faster regeneration of performance and navigation capacities. ■



# Immunbooster

■ Intestinal health ■ Binds mushroom poisons ■ With Alliin  $\Rightarrow$  Allicin

500 g can Art.-No. 11551

**Immunbooster** stimulates the attention and reaction time of the immune system and thus the health of the pigeons from the inside. For the first time, we use functional trace elements such as copper and zinc in the **Immunbooster**, which are extremely suitable for the pigeons and round off the recipe of this innovation with a mycotoxin (fungus poison) binder. As in the **Jungtierpulver**, the **Immunbooster** contains prebiotic components, alliin, and colostrum to support the pigeons in stress phases.

## Feeding recommendation:

10 g per 20 pigeons per day over the food. **Before stress phases such as exhibitions or the training start:** 3-5 days; **Before the flight:** 3 days; **Breeding:** 2 times a week; **Moulting:** 2 times a week; **Young flights:** 4 times a week; **Young bird sickness:** daily; **Before vaccinations:** 7 days before vaccination. 1 heaped measuring spoon are 10 g. The food can usually be moistened with **Hexenbier** or **Moorgold**.

**Tip:** The pigeons should be introduced to the taste and smell before the season. Once the pigeons get accustomed to the smell, they eat **Immunbooster** quite gladly.



Promotes digestion



With active formula



Preventive protection



*„From weaning until the beginning of the races, my young pigeons get **Immunbooster** and **Entrobac** together with **Hexenbier** three times a week on their feed. Once they've gotten used to the taste, they eat it without problems! When the journey of the young birds begins, they get **Hexenbier** together with **Immunbooster** and **Entrobac** on the first three days after the flight. As a result, their droppings are always in a very good condition. Through this mixture, I have significantly fewer problems concerning the young bird sickness.“*

*Albert Derwa*

# 3 Healthy from the gut

## *Build up intestinal flora*

**Many scientific studies indicate that pre- and probiotics can have healthpromoting effects on the host organism. A distinction must be made between prebiotics and probiotics. The prebiotics are a food resource for probiotic bacteria in the intestine. They create a healthy intestinal environment and stabilise the intestine's natural flora, thus supporting the immune system.**

A successful probiotic has to meet the many different needs of modern pigeon racing. It also makes sense for it to be acid stable to be able to easily withstand the low pH value of the stomach so that it can exert its effect in the intestine without being destroyed by the stomach acids. The area of application of a probiotic leads to further requirements. Often they are prescribed to restore the gut flora following a course of antibiotics. Nowadays we have probiotics that contain high numbers of probiotic bacteria that can withstand frequently used antibiotics such as Colistin, Enrofloxacin and Amoxicillin. It is therefore possible to restore the damaged intestinal flora even while antibiotics are administered.

The probiotic bacteria promote the growth of lactobacilli in the small intestine by optimising the living conditions of the body's own probiotic bacteria. This crowds out pathogens such as E.Coli, salmonella and clostridia. An additional benefit of these new probiotics is that their metabolites inhibit the growth of fungi. It therefore makes sense that many preparations contain a special probiotic that feeds the friendly intestinal flora in the long term.

It is recommended that a probiotic is always administered after stressful periods. For example, a new feed or a lack of water over a long period can lead to dysbiosis (intestinal flora disorder) in the intestine and so weaken the pigeons' defences. The new generation probiotics reliably counteract this dysbiosis after stressful periods. To complete therapy after stressful periods such as training stress of young pigeons, stays in the enclosure and administration of medicine, it also contains vitamins in specific concentrations to accelerate regeneration as best as possible. ■



# Entrobac

■ Stabilises the intestine ■ Stable against antibiotics ■ Inhibits fungal growth

600 g Can Art.-No. 11547

**Entrobac** is a feed supplement for pigeons. It contains probiotic bacteria and special prebiotics that are needed to populate the intestinal flora as best as possible. **Entrobac** is ideal for restoring the intestinal flora during or after strains, change in feed, stressful phases and treatments. The bacterial strain contained in it is stable against many antibiotics and therefore **Entrobac** is perfectly suited to restore the intestine during and after antibiotics treatment. **Entrobac** promotes a healthy gut flora, strengthens the immune system and represses harmful germs such as E. coli, salmonella and clostridia. The bacteria also produce metabolites that act against fungi.

## Feeding recommendation:

**In general:** 5 g (1 measuring spoon) per 1 kg feed or per 1 litre drinking water; **Racing season:** For 2 days after the flight; **Moult & breeding:** 2 times a week; **Young pigeons:** 2 days before and 2 days after each show flight and prize flight; **After treatments:** 10 g (2 measuring spoons) per 1 kg feed. To restore the gut flora after treatments, always feed for several days in a row. Can be fed together with **Avimycin forte** and **K+K Protein 3000**.



„I give **Entrobac** to my racing pigeons every Sunday and Monday, 12.5 g per meal for 45 pigeons. I notice that it speeds up intestinal regeneration, allowing me to achieve perfect droppings and a great down moult.“

*Klaus Steinbrink*



Immunity



Intestinal equilibrium



Long-term effect



Promotes digestion

# Moorgold

■ Bowel cleanse ■ Firm droppings ■ User friendly

1000 ml Can Art.-No. 11461

**Moorgold** is a pure concentrate of healing mud. The humic acids contained in the intestine bind harmful substances and thus promote the natural discharge from the body. The new formula also contains special fibers, causing firm droppings after two to three feedings with **Moorgold** and the digestion is affected positively.

**Feeding recommendation:** 1 tablespoon per 1 kg feed.



Promotes digestion



Long-term effect



Intestinal equilibrium

# Hexenbier

■ Increase fitness ■ Immune response ■ Moulting of down feathers

500 ml Bottle Art.-No. 11310

**Hexenbier** is a vitality drink made of onions, honey, propolis, Echinacea (cone flower), elderberry juice, beardlichen (Usnea barbata), and garlic, which strengthens the resilience and causes exceptional eagerness to fly. After several days of giving **Hexenbier** the breast meat of the pigeons turns pink, the nose-wattle turns white, and the down feathers moult extensively.

**Feeding recommendation:** 20 ml per 1 litre drinking water.



100% natural



Race



Fast effect



# Healing mud as *Power of nature*

Digestive disorders, particularly during stressful times such as the racing season or moulting, are best dealt with preventively. Naturally occurring peat moss has been proven to support digestion and can be used specifically to promote optimum faecal consistency.

## **Moorgold stands for 100 % nature**

natural peat moss, which has been traditionally cut from bogs for centuries, a true all-rounder thanks to its unique composition.

### **It contains for example:**

- Humic acids
- Tannins
- Nitrogen
- Flavonoide
- Essential oils
- Enzymes
- Vitamins
- Minerals (such as iron and sulphur)

With its valuable ingredients, it can strengthen the intestinal flora, bind harmful toxins and improve faecal consistency. So-called high moors, where harmful heavy metals are washed out by the water that flows through them continuously, are known

to be particularly low in contaminants. It is therefore especially important to choose the right moor. Natural high moors are the ideal choice, because they are exceptionally rich in valuable humic acids.

## **Healthy digestion**

Peat moss contains many humic and fulvic acids that both improve digestion in the long term and strengthen the intestinal flora in equal measure. Humic acids are natural biofactors that are considered to have intestinal cleansing properties. They also have the distinction of offering a protective effect on the intestinal mucosa. They therefore contribute to balanced digestion and can support the intestinal tract.

## **Improved faecal consistency**

Both stressful situations (such as changes in feed) and everyday stress (for example from heat) can quickly lead to poor droppings in pigeons. Humic acids can help here. Humic acids ensure that toxic constituents are excreted naturally, so that the organism is not placed under strain. Another of their special features is that humic acids stay almost entirely in the gastrointestinal tract after ingestion in the feed, where they can fully develop their properties. ■



# 3 Power of nature

## Kräuter-Gemüse-Mix

■ Down feather moult ■ Support of the airway heath ■ Healing herb mixture

500 g Can Art.-No. 11115

**Kräuter-Gemüse-Mix** consists of 17 different herbs. The mixture of a large variety of natural ingredients corrects nutritional deficiencies. Such deficiencies may occur, when pigeons cannot follow their instincts of feeding on herbs, humus, and soil in the fields. **Kräuter-Gemüse-Mix** – the herbs are beneficial for the intestinal tract and the airways. The mixture ensures that the droppings are solid, the moulting proceeds properly, the plumage is brilliant, and the airways are clean.

**Feeding recommendation:** 1 Measuring spoon = 10 g per kg.



100 % natural



Resting period



Moulting

## VitaloTop

■ Promotes digestion ■ Strenghtens the immune system ■ Contains chili extract

500 ml Bottle Art.-No. 11623

**VitaloTop** is an optimised mixture of plant extracts (3,5%) based on chilli and birch fig extract, specially formulated to compensate nutritional deficiency symptoms in pigeons. Extra deadnettle and rosemary extracts provide the benefits known through literature. Since pigeons cannot taste chili, we take advantage of its benefits in **VitaloTop**. These include promoting digestive enzymes and restoring the natural balance of the intestinal flora. **VitaloTop** is therefore ideally suited for immunodepressive stress phases, e.g. to support therapy during and after the disease phase of the young animal.

**Feeding recommendation:**

5 ml per 1 litre drinking water 2-3 times a week.



100 % natural



Preventive protection



Intestinal equilibrium

# Herbs and their components

Because of the valuable substances they contain, herbs have been valued for thousands of years and are frequently used as medicinal herbs. With their special constituents, they can have a positive impact on health. And this means that herbs are a recurrent focus of scientific research, in an effort to find out which constituents are responsible for which effects and to what extent they can even protect against disease.

## What makes herbs so special?

Herbs produce a range of substances that they themselves need, for example for their own propagation or protection. These substances are also known as secondary plant compounds, a term that refers to special plant constituents that are contained for example in herbs, garlic, fruit and vegetables, and that give the food its colour, smell and taste. There are over 100,000 different secondary plant substances. These are categorised into different groups based on their structure and properties. They are of particular importance because they have an extremely high health value. They have antioxidant, antiviral, antibacterial or antifungal properties and support the cardiovascular system, the body's defences or digestion.

## How do secondary plant substances work?

Thanks to their many and various health-promoting properties, secondary plant substances are becoming a more frequent focus of research. Numerous studies have examined their various modes of action and demonstrated positive effects on metabolism and health.

## The most important constituents of herbs

### Essential oils

Essential oils are what cause herbs to give off their typical smell. This term covers a large number of different chemical groups (e.g. monoterpenes, triterpenes, etc.). Monoterpenes are found for example in thyme, bay leaf and sage, which are often used to support the treatment of respiratory diseases.

### Bitter compounds

As the name suggests, a "bitter compound" is basically a collective term for anything that tastes bitter. Plants produce these substances primarily as a defence against predators. While they might not taste particularly good, they stimulate digestion overall and cause an increase in stomach and bile production, and in intestinal peristalsis.

### Glycosides

Glycosides include an entire group of highly effective substances with certain sugar compounds in common. Most plants and herbs produce many different glycosides, which are used to store or transport substances, to defend against pathogens and for self-healing. Because they are so numerous, these substances are subdivided into various smaller groups. The glycosides include for example the flavonoids, the cardiac glycosides, the iridoid glycosides, the saponins and the mustard oil glycosides.

### Mustard oil glycosides (glucosinolates)

Glucosinolates protect plants from herbivores and are responsible for the pungent flavour of mustard radishes, for example. They bind free radicals, can lower the lipid content in the blood and stimulate the immune system. For example, studies show that they can inhibit the growth of pathogens.

### Flavonoids

Flavonoids are substances that are mainly responsible for the formation of pigments in plants. They are widely distributed overall and highly relevant in medical terms, for example for their anti-inflammatory effect. Many of them can also help to boost circulation, reduce cramping and stimulate blood flow. ■

# 4 L-carnitine and Iodine

## *Stimulating the metabolism*

**An active metabolism is a precondition for top performance in modern pigeon racing. We recommend a traditional preparation that stimulates the metabolism. Additional functional ingredients can have performance improving effects! This is a central focus of our recommendations.**

Iodine has a strong stimulating effect on the metabolism, when used in large doses. A highly functioning metabolism helps pigeons to be in top shape. After only a few administrations of elementary iodine you can observe a clear change in the pigeons, which can only be achieved with elementary iodine. In addition to its role in thyroid function, iodine plays an important role in regulating physiological processes such as growth, moult and reproduction as well as immune functions; it also has anti-inflammatory and antioxidant effects. Iodine also plays quite an important role in the treatment of fungal diseases such as candida infections. Following antibiotic treatment several days of iodine administration is advisable. Iodine, because of its disinfectant effect, also plays quite an important role in treating and preventing pox diseases. L-carnitine is a functional component that has a key function in energy metabolism.

Studies show a clear effect from longterm feeding of pure carnitine. Studies show that longterm feeding of at least 50 mg of L-carnitine per pigeon, will significantly improve their performance. It is absolutely essential to ensure continuous administration of L-carnitine during the racing period, because only then can L-carnitine be absorbed by the muscle cells. The performance improving effects can only be ensured with longer-term administration, which manifests itself in increased willingness to train.



The main importance of L-carnitine lies in the transport of fatty acids from the cytoplasm to the mitochondria, i.e. to the power stations of the cells,

which makes it important for the race because of energy production from fatty acids. L-carnitine is able to prevent muscle cramping and fatigue by binding free acetyl radicals and therefore avoid their damaging effect on muscle cells. L-carnitine is also a buffer for the damaging lactic acid, which means that the muscle, when under extreme stress, will not become "acidic" as quickly.

Under "normal" living conditions (outside the racing season) the L-carnitine requirements can mostly be met by self-synthesis. A deficiency can occur if in the case of low administration (mixed grain feed contains an extremely low amount of L-carnitine) there is an increased requirement. We have to assume a significantly higher requirement if physical strain is increased through training and racing. We therefore recommend that you feed L-carnitine over a longer period of time, which should deliver a positive effect. Racing pigeons fatigue less quickly, which allows flying speed to be maintained at a high level over a longer period. The indirect cell protection function of L-carnitine protects the muscles. This prevents the muscles from becoming "acidic", which is harmful, allowing the pigeon to deliver high performance in the long term.

During normal training at home, constant administration of L-carnitine leads to a much higher willingness to fly because of the influences mentioned above. The longer and more intense training units easily achieved this way lead to a proven training effect that puts a strain on all metabolic functions. The pigeons regenerate quickly even after heavy strain and the right conditions for top performance are in place.

L-carnitine increases performance indirectly by improving cell metabolism and leads to a shortening of the rest periods. ■



# Blitzform®

For pigeons

■ Formation of blood ■ Improving form ■ Improving performance

100ml Bottle Art.-No. 10850 | 250ml Bottle Art.-No. 10851

To improve performance and disinfect trough water. High-performance pigeons cannot just be given grain feed and water. The pigeons will be in top form with **Blitzform®**! The pigeons will return home 5 to 10 minutes earlier! Because they will be in top form with **Blitzform®**. **Blitzform®** will ensure that racing pigeons are in top form and therefore fly faster. The health of the racing pigeons is significantly improved as a result of the easily absorbable iodine and iron and their body's defences and their vitality also improves. **Blitzform®** gives the pigeons a clean throat, shiny eyes, snow-white noses, shiny plumage and a pink breast with small stains. The organic iron contained in it facilitates the production of red blood cells, which transport oxygen in the blood.

**Note:** This veterinary medicine is marketed in accordance with the Small Animal Exemption Scheme.



Race



High economical



Hygiene

Metabolism

# Carni-Speed®

■ Muscle protection ■ Greater willingness to fly ■ Promotes endurance

500ml Bottle Art.-No. 11140

The main ingredient of **Carni-Speed®** is L-carnitine. This substance, which is similar to a vitamin, plays a central role in the metabolism of pigeons. With a dosage of 10 ml/litre drinking water the pigeons receive the required amount of L-carnitine, which science has shown to improve their performance. The magnesium and selenium contained in it also serve as muscle protection. The pigeons are much more willing to train and their endurance is increased.

**Feeding recommendation:** Daily 0.5 ml per pigeon.



Long-term effect



Race



Training

# 5 Vital nutrients

Aside from the already mentioned components of the 7-point plan, the supplementation with vital nutrients is essential for an optimal feeding regimen throughout the year. This includes vitamins, trace elements, and minerals. These micro-nutrients are essential to keep the pigeons healthy. However, they do not provide energy. This distinguishes micro-nutrients from the macro-nutrients fat, carbohydrates, and proteins. Micro-nutrients are involved in many metabolic processes. Therefore, the pigeon feed should be supplemented with micro-nutrients throughout the racing season, when raising young pigeons, and during resting periods.

Arguably, vitamins are the best-known group of vital nutrients. The vitamins are grouped in water-soluble and fat-soluble vitamins. Vitamins A, D, E, and K are fat-soluble vitamins. Vitamin E for example is used as “breeding vitamin”. Meanwhile, vitamin E was proven to work well when preparing pigeons for mating. The well-known C and B vitamins are water-soluble. Vitamin B12 is important for the haematosiis as well as for the degradation of certain fatty acids. In the racing season, the demand for vitamins increases. The same applies to trace elements and minerals. For example, adding magnesium to the feed supports the muscle functions. It is important not to exceed certain amounts of vital nutrients in the feed to avoid putting a strain on the pigeons during the flight season.

In the tried and proven method, the micronutrients are given in the middle of the week during racing season. The micro-nutrients are ideally mixed with the feed because this ensures the quick uptake and provides an about equal amount to every pigeon. Neutral oils are the best vehicle for attaching the vital nutrients to the feed. A mixture of neutral oils such as various plant oils, lecithin and fish oil is best suited for this purpose. The unsaturated fatty acids from fish and plant oils are important substances in the synthesis of hormones and cell components. They also suppress inflammation. By contrast, saturated fatty acids are mainly used as energy source. Saturated sheep fat is now properly used in the upkeep of racing pigeons.



Two components are beneficial in the preparation of optimal mixing oils for pigeon feeds. Lecithin should be added because it is scarce in plant oils but has tremendous benefits for the metabolism. Rice germ oil is another essential ingredient because it supplies many significant ingredients such as vitamin E and gamma-oryzanol. Vitamin E increases the fertility and is well-known as radical scavenger, which protects the cell from oxidative damage. The also present gamma oryzanol has a positive effect on muscle building. We want to enter into the discussion on the optimal way to give pigeons vital nutrients that saturated as well as unsaturated fatty acid have a proven beneficial effect on the uptake of micro nutrients. These fatty acids may either be plant or animal derived. We suggest select mixing oils or energy-providing compounds such as sheep fat. ■

# RO 200ready

■ Fitness powder ■ Improving form ■ Improving performance

600 g Can Art.-No. 11253

**RO 200 ready** is a mix of prebiotics, electrolytes, amino acids, energy sources, minerals, trace elements and multivitamins. It is perfectly tailored to the needs of pigeons and promotes fitness until the day of the flight. The prebiotics in the preparation stabilise the intestinal flora and thus improve intestinal health.

## Feeding recommendation:

20 g (1 heaped measuring spoon) with 750 g feed or 1 litre of drinking water. **Racing season:** last 2-4 meals before day of flight, after races for strength. **Moult, breeding and rearing:** 2-3 times per week.



Race



Intestinal  
equilibrium



Long-term effect

# RO200 Tabs

■ Individual feeding ■ Performance improvement ■ Form building  
120 Pieces per can Art.-Nr. 11455

**RO 200 Tabs** are condition tablets with prebiotics, electrolytes, amino acids, energy sources, minerals, trace elements and polyvitamins.

## Feeding recommendation:

One **RO200 tablet** per pigeon.



Race



Intestinal  
equilibrium



Long-term effect

# 5 OptiBreed

■ Livelier animals ■ Stimulates libido ■ Healthy growth

200 g Can Art.-No. 11565 | 600 g Can Art.-No. 11688 | 1 kg Can Art.-No. 11564

**OptiBreed** contains a complex of active ingredients that improves protein synthesis. This boosts the growth of the young animals. Other components stabilise the intestinal tract for a stronger immune system. Its high vitamin E content increases the pigeon's libido and prevents deficiencies.

## Feeding recommendation:

Add 40 g (approx. 1 tablespoon) to 1 kg of feed; the next step is to mix the whole thing vigorously for about 30 seconds until all the grains are wet. It should be fed 3-5 times a week in the breeding and rearing of the young.



Promotes digestion



Perfect breeding



Promotes growth

# Energie-Öl

■ Muscle building ■ Lecithin supplier ■ Energy source

250 ml Bottle Art.-No. 11486

**Energy Oil** is a natural energizer made from a mixture of complementary cold-pressed high-quality oils. The fish oil it contains provides unsaturated fatty acids and the lecithin ensures a smooth fat metabolism. The rice germ oil it contains promotes muscle building.

## Feeding recommendation:

Mix 5 ml = 1 capful with 1 kg of grain feed once or twice a week during the travel season.



Perfect breeding



Promotes growth



Race



# MagnePro

■ Muscle function ■ Minerals ■ Shape enhancement

500 g Can Art.-No. 11506

**MagnePro** is a powdered feed supplement based on the minerals calcium, sodium and two sources of magnesium. It also contains two high-quality protein sources based on algae and yeast. MagnePro should be used before the flight to prevent muscle cramps.

## Feeding recommendation:

Administer 5g for 25 pigeons a day before the flight via the feed. We recommend administering together with **Oregano-Schaffett** and **RO 200 ready**, both of which should also be given towards the end of the week.



Long-term effect



Race



Fast effect



# Mumm

■ Flight energy ■ Energizer ■ Regeneration

500 g Can Art.-No. 11499

**Mumm** is an easy to digest and water soluble tonic that provides energy and replenishes glycogen reserves. Because it contains various carbohydrates, Mumm is able to provide energy before the flight and quickly replenish glycogen stores after the flight.

## Feeding recommendation:

10g per liter of water.



Long-term effect



Addition via drinking water



Race



# 6 Probiotic bacteria – small helpers, big effect

## *Keeping the airways free*

For this reason, Röhnfried took its research in a different direction and now uses innovative probiotic bacteria, which is an absolutely harmless way of keeping the airways of pigeons healthy. If you examine the mucous membranes microbiologically in more detail, you can see that it has pathogenic as well as non-pathogenic organisms (so-called probiotics) on it.

Recent research shows that bacteria exchange information through cell-to-cell communication (quorum sensing). These are very complex processes at the end of which messenger substances form the relevant signals. For instance, bacteria signal to each other “optimal conditions” if there is plenty of space and nutrition, which then leads to the bacteria multiplying and dividing more. Free space and good nutrition thus signals “good conditions” and encourages them to multiply. Not a lot of space and little nutrition, on the other hand, tends to cause the microorganisms to assume an arrested state, a so-called sporoid form. This means that bacteria, as a result of high population

density (many beneficial bacteria in a small space) produce signals that cause all bacteria to form a spore.

This finding was the starting point for our completely new hygiene approach: we do not disinfect, rather, the mucous membrane is continuously populated with probiotic bacteria. This process is called microbiological management. It means that benign bacteria clean, so to speak, the surfaces. They do this by causing (through signalling) the undesirable bacteria to stop multiplying, which as a result are crowded out by the probiotic bacteria. The new generation probiotic microorganisms make use of this entirely new hygiene approach by populating the mucous membranes and thus enter into competition with the pathogenic organisms for food and space. This process of the “microbiological cleaning” of the mucous membrane creates a healthy and stable microflora. The formation of this probiotic microflora on the pigeons’ mucous membranes provides protection from infections before and after a race, especially while the pigeons are transported. ■

## **Avisana** Nose drops for pigeons

■ White noses ■ Clean throats ■ Free airways

50 ml Bottle Art.-No. 11416

**Avisana** is an active cleaner for all mucous membranes as well as noses and eyes, wounds, injuries and endangered body parts. It forms a stable and healthy microflora by populating the affected areas with safe probiotic bacteria. It is pH-neutral, very economical to use, and contains no colourings or odorants. Avisana forms a probiotic liquid film on the surface with a long-term effect, which usually means that disinfection is not necessary.

### **Application recommendation:**

When basketing and separating 1 drop per nostril



High economical



Race



Preventive protection

# Released breathing

Why is it important to keep the air ways free? For decades pigeon breeders have talked about how keeping the air ways of the birds free helps to achieve top prizes. We wholeheartedly share this conviction and not only because it is obvious that birds need clear air ways to inhale an optimum amount of oxygen. It has been common knowledge for some years now, that the pigeons' sense of orientation and their olfactory sense go hand in hand.

This is why for quite some time, Röhnfried has focused on boosting the pigeons' air ways from within. On the one hand, the mustard oil of nasturtium, and horseradish proved themselves to be very efficient agents – natural antibiotics effecting the air ways via the bronchial tubes – causing no damages at all to the intestinal flora of the pigeons (**Avimycin forte**). On the other hand, we make use of the liberating effects of pure herbal oils like thyme, liquorice and eucalyptus which stimulate the trachea (**Atemfrei**) and thus help to haul out dust particles.

Lately, we found a new way how to liberate the air ways – especially in case of crusting or heavy mucous obstruction

in the upper sinuses. By boosting mucous production, this new Röhnfried product clears the upper sinuses fast and efficiently from stuck crusting and dust deposits collected during autumn and winter time. Additionally, this new cleaning product has antibacterial effects on the mucous membranes and helps to fight pathogenic germs. Experience from recent years shows that these methods in combination with probiotic bacteria protect and keep the sinuses healthy (**Avisana**). This way, one can reduce antibiotic treatments of the air ways which always have undesirable damaging effects on the intestinal balance. Moreover, this new method allows to abandon antibiotics during an entire racing period.

You can apply the new cleaner directly into the nose of the pigeon or feed it with the drinking water. Shortly after the application of the product, there might occur a temporary restriction of the olfactory sense of orientation (olfactory sense). We therefore suggest to allow for a time-lag of at least 5 days before a race or training when applying the product directly into the nose. ■

## Rozitol Nose drops for pigeons

■ Clean throats ■ More top prizes ■ Clear the airways

50 ml Bottle Art.-No. 11513

As we have known for a long time, pigeons orientate themselves in their home region by sense of smell. It is therefore important that the pigeons will be sent with free airways to the races. **Rozitol** cleans the nose and promotes the segregation of fixed mucous. Old mucous and dust is being liquefied and then swallowed by the pigeons or remotely via cotton swab.

### Application recommendation:

1 to 2 drops per nostril or 30 drop per litre of water.



Fast effect



Long-term effect



High economical



# 6 There is a herb for every illness!

**The importance of this piece of wisdom continues to rise from year to year in modern pigeon sport. Because more and more bacteria are becoming resistant to classic antibiotics. Plant-based antibiotics are therefore increasingly the focus of our research.**

In addition to the anti-bacterial effect there is often also an anti-fungal and anti-viral effect. There are few or very few side-effects of plant-based antibiotics; resistance is not observed at all. Another advantage of natural antibiotics: they do not harm the beneficial bacteria that live in harmony with us, such as intestinal bacteria, which means that they indirectly strengthen our defences. They are therefore also well suited for prevention. And they also supply us with vitamins, minerals, trace elements and other essential nutrients. We find substances with a strong antibiotic effect in all cruciferous plants (e.g. horseradish) and many members of the lily family (e.g. garlic). The inhibiting effect is usually due to the sulphur compounds and essential oils contained in these plants. It is only thanks to our modern procedures that we are able to make full use of these natural substances.

Traditional monastic medicine has known about the healing effects of the ingredients (the mustard oils) of nasturtium and horseradish for centuries. They are used to treat infections of the upper airways and the urinary tract. Only through breeding and controlled cultivation are we able to reach a high concentration of mustard oil in the medicinal plant. Mustard oils inhibit the growth of pathogens.

The benzyl mustard oil in nasturtium has a broad antibacterial effect for gram-positive as well as gram-negative bacteria.

Allyl mustard oil in horseradish has good efficacy in the gram-positive spectrum (streptococci, staphylococci), while the 2-phenyl mustard oil shows an extended efficacy spectrum of gram-negative (E. coli and salmonella) bacteria. Both plant substances together are therefore a particularly effective plant alternative to chemical antibiotics. In contrast to the classic antibiotics, these natural active substances can also kill viruses, yeasts and fungi – in exactly the place where the infection is. This is because the mustard oils enter the blood in the upper intestinal section. This means that the naturally occurring “good” intestinal bacteria are not affected. ■

## Avimycin forte

■ More top prices ■ Metabolic relief ■ White noses

400 g Can Art.-No. 11626

**Avimycin forte** is a supplementary feed to help relieve and relieve the metabolism (methionine & milk thistle powder) after periods of illness and stress as well as to support the respiratory tract after racing. In addition to horseradish and nasturtium, it also contains milk thistle, turmeric, chili powder and methionine.

**Feeding recommendation:** 10 g per 20 pigeons over the food.



Fast effect



Long-term effect



High economical

# Forces of nature



## *Liquorice:*

Liquorice is the medicinal plant of 2012. It is a blood depurative and expectorant. The glycyrrhizin in liquorice roots suppresses the growth of bacteria, viruses, and fungi.



## *Thyme:*

The volatile oils in thyme are bactericidal, mucolytic, and they promote expectoration. Thyme is also an antioxidant.



## *Anise:*

Anise is the medicinal plant of 2014. It has a mucolytic effect, stimulates the intestinal glands, and it is used to control vermin.



## *Eucalyptus:*

Eucalyptus has an antibacterial effect; it is mucolytic and improves the circulation. Eucalyptus is mainly used to alleviate respiratory problems.

# Atemfrei

■ Frees the airways ■ Strengthens the immune response ■ Pure, natural herbal oils

500 ml Bottle Art.-No. 11161

**Atemfrei** is an herbal elixir, which contains various herbal oils such as liquorice, thyme, anise, fennel, and peppermint. These oils stimulate the metabolism inside the respiratory tract and promote the immune response. This increases the vitality of pigeons. Top quality herbal oils with their aromatic flavour and added vitamin C and zinc support the physiological functions of the respiratory tract.

## Feeding recommendation:

**Atemfrei** may be added to the drinking water or the feed: 10 ml per 1 litre drinking water 15 ml per 1 kg feed Give to pigeons for 5 to 10 days as needed. The dosage may be doubled in cases of severe stress.

**In the racing season after competitive flights:** give for 2 days during the first two days of the week. Shake well before use!



100 % natural



Natural protection  
from the inside



Fast effect

# 7 Minerals and Trace elements

**Minerals are inorganic substances. Usually, they cannot be replaced by other elements. The lack or scarcity of minerals negatively influences the health status and performance of pigeons. It is therefore important to ensure the continuous supplementation with all minerals and trace elements.**

No matter how many types of grain you feed, it will not contain sufficient calcium. Therefore, it is important to give pigeons a calcium supplement every day, not only during the breeding and moulting periods but also e. g. for competitive racing, in rest and winter phases. Given today's forms of pigeon upkeep with drastically limited free flights, the pigeons must rely on breeders to provide them with the crucial minerals. Calcium (Ca) and phosphorus (P) are the basic building blocks for the bone formation and metabolism. In addition, Ca plays an important role in the functions of muscle and heart, in blood clotting, and for the proper acid-base equilibrium. In breeding, calcium deficiency causes problems with the egg shell formation and distorted breast bones. The chemical elements magnesium, sodium, potassium, chlorine, and sulphur are involved in many metabolic processes. They activate enzymes, are needed

for the neuromuscular signal transport, are essential for the optimal functioning of the muscles, and they play a role in establishing the proper osmotic pressure, electrolyte balance, and acid-base equilibrium. They are also required for the production of the stomach acid (HCl). A sufficient supply of minerals is therefore prerequisite to the ability to perform at a high level. As the name suggests, trace elements are present in the body in only very small quantities. By no means does this imply that they are unimportant. Trace elements are e. g. important for the fatty acid and cholesterol synthesis and for the immune response. They also play a role in the energy metabolism.

The special mineral feed is given to the pigeons daily in small amounts before the main meal. These daily doses ensure that the pigeons are ready to take up the vital minerals. Our minerals are enriched with herbs and substances, which regulate the activity of the intestines. The mineral feed is coated with loam, which promotes the formation of digestive juices. This has a positive influence on the digestion. In the long run, the improved utilisation of the feed and the stabilisation of the intestines will lead to improved performances. This is the crucial benefit of optimised feeding. ■

## Leckerstein®

■ Excellent acceptance ■ Increased digestive activity ■ Supply of iodine and magnesium

12 pieces Art.-No. 11275

Pigeons like **Leckerstein®** because of the granulation and the way it is produced. It prevents mineral deficiency and iodine and magnesium have a positive effect on the condition of the pigeons. The good acceptance ensures that the pigeons also take up enough minerals and trace elements during the racing season.



Moulting



100% natural



Resting period

# Reisemineral

■ In-flight performance ■ Support of digestive system ■ Stimulation of the metabolism

5 kg Bucket Art.-No. 11189

**Reisemineral** is a pure, natural product; it contains oregano and the Herba-San formula herbs. All essential minerals and trace elements as well as valuable effective agents and vital compound are included. Thanks to the excellent acceptance by the pigeons, the mineral demands are also met in the racing season. Vital components and valuable herbs stimulate the digestion and the metabolism. This boosts the flight performance.

**Feeding recommendation:** Daily small amounts.



Race



100 % natural



Long-term effect

# Zucht- & Mausermineral

■ Formation of feathers ■ Osteogenesis ■ Growth

5 kg Bucket Art.-No. 11190

**Zucht- und Mausermineral** is a pure, natural product containing oregano and herbs such as fenugreek, Aloe, sage, thyme, and cinchona bark. The amino acid methionine and all essential minerals and trace elements are also present to meet the special needs of breeding and moulting pigeons. The preparation promotes the correct shell formation and improves the bone formation in just hatched pigeons. The vital substances and valuable herbs stimulate the digestion and the metabolism.

**Feeding recommendation:** Daily small amounts.



Perfect breeding



Intestinal equilibrium



Moulting



# Winners rely on

# Standardmineral



**SABRINA BRUGMANS**  
**1st National Argenton**  
**against 23124 youngsters 2021**



**RONNY MENTEN**  
**1st National Ace Pigeon**  
**heavy middle distance KBDB 2020**



Promotes  
digestion



Promotes  
growth



Moulting

# Standardmineral

■ Balanced minerals ■ Promotes the digestion ■ Finely granulated quality

10 kg Bucket Art.-No. 11457





Vanilla



Mussel shells



Calcium



Stomach stones



Activated carbon



Phosphorus



Vitamin powder



Red stones



Yellow millet



Star anise oil



**Standardmineral** is a pure natural product; it contains all essential minerals, trace elements, and valuable vital agents and components. Feeding **Standardmineral** provides and balances needed minerals and stimulates the digestion and the metabolism. The fine granulation ensures the effective uptake by the pigeons.

#### Feeding recommendation:

Feed  $\frac{1}{2}$  to 1 measuring cup of **Standardmineral** (70 to 140 g) to 80 pigeons in the trough.

# 7 Grit mit Anis

■ Excellent acceptance ■ Better digestion ■ Stable acid-base equilibrium

5 kg Bucket Art.-Nr. 10697 | 25 kg Bag Art.-Nr. 10836

**Grit mit Anis** consists of a mixture of sea shells, quartz and redstone. These ingredients optimise the calcium level because calcium is available for a relatively long time. Quartz and redstones promote the digestion and the ingested minerals are part of the acid-base regulation in the pigeon organism. The excellent acceptance of **Grit mit Anis** is due to the added anise oil and the special structure of this mixture.

## Feeding recommendation:

Liberal supply as much **Grit mit Anis** as the pigeons ingest in a day.



Moulting



Perfect breeding



Intestinal equilibrium

# Expertmineral

■ Mineral optimum ■ promotes digestion ■ excellent acceptance

5 kg Bucket Art.-No. 11020 | 25 kg Bag Art.-No. 11021

The gentle production process and the grain size make **Expertmineral** a tasty treat for pigeons. **Expertmineral** is particularly tasty and unique in its structure and composition. The stomach stones it contains promote digestion and the special coating ensures that all pigeons absorb sufficient minerals.

**Feeding recommendation:** **Expertmineral** can be fed throughout the year, especially during the breeding period and moulting.



Moulting



100 % natural



Rest



# Topfit-Futterkalk

■ Vitamins ■ Minerals ■ Trace elements

1 kg Can Art.-No. 10955

**Topfit-Futterkalk** is a specially defined mix of vitamins, minerals and trace elements. If administered regularly, it promotes growth, muscle development, fertility and bone structure development. Especially for breeding and rearing **Topfit-Futterkalk** produces excellent results.

## Feed recommendation:

**Topfit-Futterkalk** can be given to racing pigeons in a feed container on its own to take freely or mixed in with food. **During moult, breeding and racing period:** approx. 20 g **Topfit-Futterkalk** (1 tablespoon) for 10 pigeons.

# Mineraldrink

■ Weaning help ■ Supplier of minerals ■ Egg shell stability

500 ml Bottle Art.-No. 11582

**Mineraldrink** provides valuable minerals for breeding pigeons and youngsters in times of increased need, such as egg laying and during the rearing of the young pigeons. **Mineraldrink** is able to compensate mineral imbalances. The trace elements copper, manganese and zinc also ensure important metabolic processes in the organism of the pigeons.

**Feeding recommendation:** 5ml per litre of drinking water.



Perfect breeding



With active formula



Moulting



Perfect breeding



Promotes growth



Youngsters





## Elektrolyt 3Plus



■ Water balance ■ Muscle function ■ Quick energy

600 g Can Art.-No. 11308

**Elektrolyt 3Plus** is an excellent combination of electrolytes and carbohydrates, which ensures that body fluids are restored to normal again quickly after moisture loss. **Elektrolyt 3Plus** should always be administered before and after major exertion.

**Feeding recommendation:** 1 measuring spoon (10 g) with 1 litre water.



Addition via  
drinking water



Race



Fast effect

## Oxyzell-Kräuterhefe



■ Topform ■ Liquid brewer's yeast ■ Endurance & performance

500 ml Bottle Art.-No. 11507

**Oxyzell** is a liquid herbal yeast and contains many vitamins, minerals, trace elements and valuable herbs. It increases the shape of the pigeons, improves rearing results and promotes the development of a healthy immune system in young pigeons.

**Feeding recommendation:** 2 tablespoons per 750 g of food.



Race



Quick effect



Accelerates  
regeneration

## Oregano-Schaffett



■ Highest powder compound ■ Fat supplier ■ With oregano and linseed oil

600 g Can Art.-No. 11479

**Oregano sheep fat** provides maximum energy supply for racing, training, breeding, rearing and moulting thanks to its composition using 45 % sheep fat and pure oregano oil.

**Feeding recommendation:** 1-2 tablespoons of oregano sheep fat are mixed with 1 kg of grain feed until it is well distributed around the grains.



Perfect breeding



Race



High economical

## Sedochol



■ Liver protection ■ Regeneration ■ Moults & Breeding help

500 ml Bottle Art.-No. 11405 | 1000 ml Bottle Art.-No. 11406

**Sedochol** is a mix of the sulphurous amino acid methionine, sorbitol and choline. Methionine is contained in large amounts in the feathers, which makes it essential for a faultless moult. Choline and sorbitol, which are involved in protein and fat metabolism, provide active liver protection and fast regeneration after a race.

**Feeding recommendation:** 10 ml per 1 litre water or 750 g feed.



Promotes  
Digestion



Intestinal  
equilibrium



Race

## Flugfit-Dragees



■ Vitamin supplement ■ Strength ■ Stamina

60 Tablets Art.-No. 10529

**Flugfit-Dragees** supply pigeons with high doses of vitamins, amino acids, honey, and carbohydrates. The significant benefit of **Flugfit-Dragees** is based on the special way it is made to release the nutrients several hours after it is given to a pigeon. This ensures that the pigeon has all the strength needs to come home.

**Feeding recommendation:** 1 coated tablet per pigeon.



Perfect breeding



Long-term effect



Race

## Blitz-Maxi-Kraft-Pillen



■ Vitamins ■ Amino acids ■ Aniseed

50 Tablets Art.-No. 10944

**Blitz-Maxi-Kraft-Pillen** contain concentrated, natural energy from bee pollen, brewer's yeast and star anise for strength and endurance, as well as high flight speed, especially on long flights.

**Feeding recommendation: Short trips:** 2 pills before basketing.

**Middle distances:** 2 pills when basketing. **Long distance:** 2 pills the day before basketing and 2 pills when basketing.



Long-term effect



Race



100 %  
natural

## Taubenfit-E 50



■ Preparations for breeding ■ Muscle building ■ Cell protection

250 ml bottle Art.-No. 11497

Together with other feed, **Taubenfit-E50** is meant to supply breeding pigeons with the needed amount of vitamin E. Especially in combination with selenium, vitamin E has a beneficial influence on the fertility, the hatch rate, the upbringing, the muscular structure, and the flight performance.

**Feeding recommendation:** 5 ml per litre of drinking water.



Perfect breeding



High economical



Fast effect

## Gervit-W®



■ 18 vitamins ■ Vitamin balancing ■ Enhance fertility

100 ml bottle Art.-No. 10500 | 500 ml bottle Art.-No. 10502

250 ml bottle Art.-No. 10501 | 1000 ml bottle Art.-No. 10503

**Gervit-W®** is suitable for administration in the drinking water or grain feed to rectify food-related vitamin deficiencies (only grain feed) during breeding, the racing period, the moult, the show period and the cold seasons. We also recommend adding **Gervit-W®** to meet vitamin needs after stress and to boost the metabolism.

**Feeding recommendation:** 5 ml per 20 pigeons over food or water.



High economical



Long-term effect



Perfect breeding

## Taubenglück



■ Appetizing ■ Shape-enhancing ■ Growth-promoting

500 g Can Art.-No. 11633

**Taubenglück-Pillen** stimulate the pigeons' appetite and digestion. They are used for general strengthening, help to maintain shape and are ideal for rearing young pigeons.

**Feeding recommendation:** racing pigeons receive 1 pill after the flight on 2 days. Young pigeons receive 1 pill of Taubenglück daily from the 7th day onwards in the morning.



Youngsters



Intestinal equilibrium



Perfect breeding

# Vitamins

Vitamins are particularly important for pigeons, as they are involved in almost every metabolic process in the body. They strengthen the immune system, contribute to muscle and bone formation and play a major role in fertility and growth in general. There are 13 different vitamins in total. The vast majority of these vital substances are essential and they must therefore be ingested with the animal's feed.

## What are vitamins?

Vitamins are part of the group of so-called micronutrients and are involved in almost every process in the body. The body requires them to build muscle, fibre and bone. They are essential for nerve function and energy balance and play an extremely important role in the general metabolism. A distinction is made between fat-soluble vitamins (vitamins A, D, E and K) and water-soluble vitamins (vitamin C and B vitamins).

## Fat-soluble vitamins

The fat-soluble vitamins include vitamins A, D, E and K. They are derived from the diet and then stored in the body. For this reason, any massive oversupply can lead to intoxication (poisoning).

## Water-soluble vitamins

Unlike fat-soluble vitamins, water-soluble vitamins (B vitamins and vitamin C) are not stored in the body after ingestion. They should therefore always be supplied continuously. Any excess of vitamins is simply excreted.

## The vitamins in detail

### The fat-soluble **vitamin A** plays an important role in:

- The immune system and vision
- Healthy skin and mucous membranes
- Growth

### **Vitamin B complex**

This is a collective term for many different vitamins. They play

a role in almost every metabolic process and are particularly important for the nervous system.

### **Vitamin C**

Unlike us humans, pigeons are basically able to produce their own vitamin C. There are however some situations in which the vitamin C requirement is increased (e.g. illness or stress). In these cases, additional provision is advisable. Overall, vitamin C is important for growth and the immune system.

### **Vitamin D**

Vitamin D plays a major role in calcium-phosphorus regulation, and therefore in the development of the skeletal system.

### **Vitamin E**

Vitamin E is also often referred to as the "breeding vitamin". It promotes protein, fat and mineral metabolism, supports the function of glandular, muscle and nerve tissue and increases fertility. It also acts as an antioxidant.

### **Vitamin K**

Another vitamin is vitamin K, which plays a major role in blood clotting.

### **Vitamin deficiency in pigeons**

To prevent vitamin deficiencies, it makes sense to supplement essential vitamins. The administration of additional vitamins has proven particularly effective during periods of stress or after illness.

In addition, practical experience shows one thing again and again: vitamins can improve the performance of healthy pigeons. ■



# Badesalz

■ Insect repellent ■ Plumage care ■ Skin care

800 g Can Art.-No. 10531

**Badesalz** is recommend all year round but especially during moult. Dust, skin residue and dander, bad feathers and down are loosened, which promotes new feather growth and cares for the skin. This pigeons will have a shiny, silky plumage and it also acts against mites, bird lice and other parasites.

*Use biocidal products with care. Always read the label and product information before use. Misuse can cause damage to health.*



Moult



Hygiene



Long-term effect

# Bio-Air-Fresh spray solution for improvement of air

■ Air quality improvement ■ Dust binding ■ Free airways

400 ml Spray can Art.-No. 11487

**Bio-Air-Fresh Spray** solution containing essential oils for improvement of air. It contains distillates of various herbs. These essential oils have been used to maintain the health of the respiratory organs for generations. Use of this product makes pigeons resistant to all kinds of colds.

## Application:

Spray 2-3 strokes into each loft, especially in the winter months. Also spray it at regular intervals during the breeding period and the 2 days a week in the racing season.



Easy handling



Long-term effect



High economical

# Avibac Stabilizer

■ Reduces infection pressure ■ Improves shape ■ Improves loft climate

1000 ml Bottle Art.-No. 11225

**Avibac Stabilizer** is a product that creates a stable and beneficial environment by populating it with safe, probiotic bacteria. This creates a healthy microflora in the pigeon loft.



Easy handling



Long-term effect



High economical

# Trichomoniasis

## Importance in breeding

Trichomoniasis is one of the most common diseases in pigeons and is particularly dangerous for nestlings and young pigeons. In old pigeons, the infection is a sign of weakness and loss of condition or poor loft management. As a rule, almost every pigeon is a carrier of trichomonads and a minor infection with these parasites does not cause any health problems. When they multiply, however, initial symptoms become visible: a reddened, slimy throat and less vitality. In severe cases, the infection can quite often lead to death.

## Pathogen

The cause of the disease is *Trichomonas galline*. These are unicellular, motile parasites that belong to the flagellate family. Trichomonads attack mucous membranes in the crop, esophagus, throat and mouth. In the case of more severe infection or in umbilical form, they can affect other organs, such as the intestines, liver, lungs or brain. There are many different strains of trichomonads that exhibit different pathogenicity. The pigeons' own immunity plays a major role here in inhibiting infection. Pigeons contract the infection from contaminated drinking water, while nestlings and young pigeons also contract it directly with the crop milk from latently infected (asymptomatic) old pigeons/parents.

**Clinical symptoms** depend on the degree of infection, the portal of entry and the pathogenicity of the pathogen:

- Loss of vitality
- Lower flight performance
- Reddened, slimy throat
- Yellow, dotted films on the oral mucosa that are difficult to remove
- Frequent swallowing
- Loss of appetite and emaciation
- Runny droppings
- In young animals with navel infection: navel and organ abscess formation, runny droppings and constant chirping with growth disorders

Reliable diagnosis is possible only with a crop smear and microscopic examination.

## Treatment

For anyone keeping racing pigeons today, prevention management has more than proved its worth. Acidifying the drinking water and drying out or using alternating troughs has proven to be useful in this respect. In the event of diagnosis, treatment with ronidazole is advisable. After treatment, regeneration of the pigeons should be supported with probiotics and amino acids. ■

## Brieftauben-Gambamix Medicines for racing pigeons



■ Trichomonads ■ Treatment of individual animals ■ Crop mucositis

60 Pieces Art.-Nr. 11538

For the treatment and prevention of trichomoniasis. Push 1 dragee per pigeon deep into the throat.

Note: This veterinary medicine is marketed in accordance with the Small Animal Exemption Scheme. Do not use on food-producing animals. Only use on racing pigeons. Keep out of reach of children. Do not use after the expiry date. Dispose of unused medication via the pharmacy. For risks and side effects, read the package leaflet and ask your vet or pharmacist.



Medicine



Easy handling



Race

# Gambakokzid RO

■ Canker ■ Coccidiosis ■ For drinking water

30 x 25 g Sachets Art.-No. 11404

**Gambakokzid RO** is one of our most popular products for the treatment and prevention of Trichomoniasis (canker) and intestinal Coccidiosis and inflammation of crop mucosa worldwide. For the treatment and prevention in the loft it is recommended to add to the drinking water. Simply add 2g of powder per 1 litre of drinking water for a period of 6 days. Drinking water volumes refer to normal consumption levels and should be doubled on hot days. **Gambakokzid RO** does not have any known negative side-effects.



This veterinary medicine is marketed in accordance with the **Small Animal Exemption Scheme**.



Medicine



Fast effect



Preventive protection

# Gamba-Tabs R

■ Canker ■ Coccidiosis ■ Easy to use

60 Tablets Art.-No. 11408

**Gamba-Tabs R** are for the treatment and prevention of Trichomoniasis and intestinal Coccidiosis. **Gamba-Tabs R** are also for the treatment and prevention of trichomoniasis which cause mucosal inflammation in the crop of pigeons.



This veterinary medicine is marketed in accordance with the **Small Animal Exemption Scheme**.



Medicine



Fast effect



Easy to use

# Coccidiosis

## Relevance

Besides canker, coccidia are the most frequent protozoan endoparasites of pigeons. Coccidia live in the small intestine and, just like canker, they cause a so called „factor disease“. This means, they are an indicator of the organisms' resistance. Coccidia often occur amongst young pigeons. They indicate low immunity, stress, collateral infections, worms or poor management of the loft. Today, the relevance of coccidiosis as a spontaneously occurring disease is rather low. However, it is an important reason for a potential loss of condition.

## Germ

Pigeon coccidia are protozoa of the type *Eimeria* spp., which reproduce in the epithelial cells of the small intestine. The pigeons live in balance with coccidia, i.e., as long as they are healthy, they show no symptoms. They get infected by ingesting the oocytes with the droppings of infected pigeons. It is important to know that only sporulated oocytes are invasive.

This means that only eggs which developed in the environment can cause a disease. The development time (sporulation time) is 24-48 hours. This is why a regular and thorough cleaning of the loft is very important in combating the spread of coccidia. In case of a low immunity, the course of the disease can become acute, causing diarrhea, problems with ingestion, dehydration, and excessive loss of weight.

## Symptoms

Early symptoms go from slightly soft droppings to slimy-watery to greenish, sometimes blood strained diarrhea.

- horrent feathering
- loss of condition
- loss of appetite
- loss of weight

## Diagnosis

Microscopic examination of fecal samples.

## Treatment

You can treat the pigeons with **Gambakokzid RO** or **Gamba-Tabs R**. At the same time you should administer **Bt-Amin® forte** or **Gervit-W®** over the drinking water.

## Proper prevention of coccidia

In addition to the actual treatment of diseased animals, hygiene and optimization of management are important cornerstones of control and prophylaxis. Unfavorable conditions such as stress, hygiene problems, transport, feeding problems, extreme weather conditions, etc. can weaken the immune system and cause coccidia to multiply particularly strongly as a result. Especially the part of the immune system, which detects pathogens and then eliminates them, plays an extremely important role in the development of coccidiosis.

Vitamins and special nutrients can support the immune system and boost the organism's own defenses. As a large part of the immune system is located in the gut, a healthy gut promotes a healthy immune system. Probiotics, prebiotics and/or medicinal herbs are suitable for effectively supporting intestinal health and thus the organism's own defenses.

Oregano occupies a special position here. The medicinal plant contains particularly valuable ingredients such as carvacrol, thymol, terpinene and cymol. The essential oils thymol and carvacrol in particular have an antibacterial effect, stabilize the intestinal flora and the immune system and support digestion. For this reason, oregano can be used in a supportive way. In addition, the risk of infection in drinking water can be reduced by lowering the pH value. ■



# Veterinarian René Becker

## about vaccinations



### How do I prepare my pigeons for vaccination?

The pigeons must be eligible for vaccination, which is to say that it is always advisable to examine their condition to ensure that they are sufficiently healthy for vaccination. It is also by all means a good idea to use certain substances that are increasingly required in the course of the development of immunity after a vaccination. This certainly includes all supplements with a high vitamin B content and amino acids, such as Bt-Amin forte.

### Which vaccines should I use to vaccinate my adult pigeons and which should I use to vaccinate the young?

I always recommend vaccinating older pigeons with PHA in December and boosting the vaccination against rotavirus with RP Vacc in early spring. The young pigeons should have already received their basic immunisation the previous year. If the young pigeons have not been vaccinated with RP Vacc, the older pigeons will need to be vaccinated twice. In my

experience, PHA provides reliable protection against herpes virus infections, which have increased significantly in recent years. Rotavirus also appears to play a role in old pigeons. Based on current experience, RP Vacc also offers reliable protection here.

Young pigeons should be vaccinated with RP Vacc twice at an interval of 3-4 weeks as soon as possible after weaning. Three weeks later, they should also always be vaccinated with PHA, as there are also more and more outbreaks of herpes virus infections occurring in young pigeons. The multiple vaccinations against PMV that come with it are not a problem.

### When is the best time to vaccinate young pigeons?

You should start with the vaccinations soon after weaning. However, the young pigeons should have survived the first phase after weaning, be eating well on their own and have settled into their loft. At that point, they are usually old enough to meet the requirements of the vaccine manufacturer with regard to age.

### When is the best time to vaccinate old pigeons?

I recommend vaccinating with PHA in December and with RP Vacc in early spring, depending on the planning situation in your own loft. For example, we vaccinate with RP Vacc on the clutch of racing pigeons mated on 20 January.

### Can I also vaccinate my pigeons if I am currently giving treatment, for example for trichomonas?

That is generally not a problem.

### Can I also vaccinate the adult pigeons when there are young in the nest?

That should be avoided where possible. The manufacturer's specifications are clear in this regard. But I think everyone has

enough time to plan their vaccinations accordingly and avoid overlaps of this kind.

### **How important is the correct storage and transport of vaccines?**

That is of course essential. If transported and stored incorrectly, they can no longer be assumed to be fully effective.

### **If my young pigeons get the young bird disease, can I vaccinate the flock directly or do I have to wait until they are healthy again?**

In general, it is not common practice to vaccinate during an ongoing infection. However, experience with RP Vacc shows that vaccination during an infection is apparently not a problem, and may even have a positive effect on the course of the infection.

### **Do I have to vaccinate each round of young pigeons separately, or can I wait until all rounds are weaned?**

In my experience, the majority of breeders vaccinate all their pigeons together for the sake of practicality. It is of course a good principle to protect every pigeon as quickly as possible,

because any rotavirus infection is always a new infection of the flock. For example, this can happen at any time as a result of a bird coming in from the outside, i.e. before the pigeons go into their baskets.

### **When does the pigeon have vaccination protection?**

The process of seroconversion takes 14 days, which means that after 14 days there are enough antibodies to protect against infection. However, a breach of vaccination protection remains possible after the first vaccination. It is therefore extremely important to administer the second vaccination in good time. It is also very important not to rely on just one vaccination. This is quite common with many breeders. Basic immunisation with the formation of memory cells is not completed until after the second vaccination. After a single vaccination, the antibody level falls again after a few weeks, making infection possible.

### **Is the Pharmavac PHA vaccine effective against “Vlisje syndrome” or “one-eye-cold syndrome”?**

Yes, the symptoms in these cases are a clear indication of a herpes virus infection, as demonstrated by the results of practical experience after vaccination with PHA. ■



# Condition improvement

*Increase the condition of racing pigeons with Röhnfried products*

- Strengthening immunity
- Keeping the airways free
- Replenishing vitality reserves
- Reducing infection pressure
- Accelerating regeneration
- Stimulating the metabolism
- Optimised mineral supply

## Tuesday

On the third day after the race, the immune system is further supported by means of probiotics and humic acids. If necessary, the herbal treatment of the respiratory tract can be resumed. L-carnitine additionally stimulates the metabolism via the drinking water.

## Monday

On the second day after the race, the immune system can be supported by probiotics while the simultaneous administration of humic acids stabilises the long-term intestinal health. When given with the drinking water, it also stimulates the metabolism and reduces the infection pressure. If necessary, even a herbal treatment of the respiratory tract can be performed.

## Sunday

On the day after the race, the provision of highly absorbable animal proteins ensures the necessary muscle growth while the immune system is strongly supported by pre- and probiotics. L-carnitine in the drinking water ensures good eagerness for flying right from the day after the flight. If necessary, a herbal treatment of the respiratory tract can also be performed.

## Racing day

On the day of the race, the focus is on rapid regeneration. Already with the first trough, Butafosfan stimulates the metabolism while the additional amino acids and carbohydrates initiate muscle regeneration immediately. The second trough uses oregano and organic acids to reduce the infection pressure and thus promote health.

## Wednesday

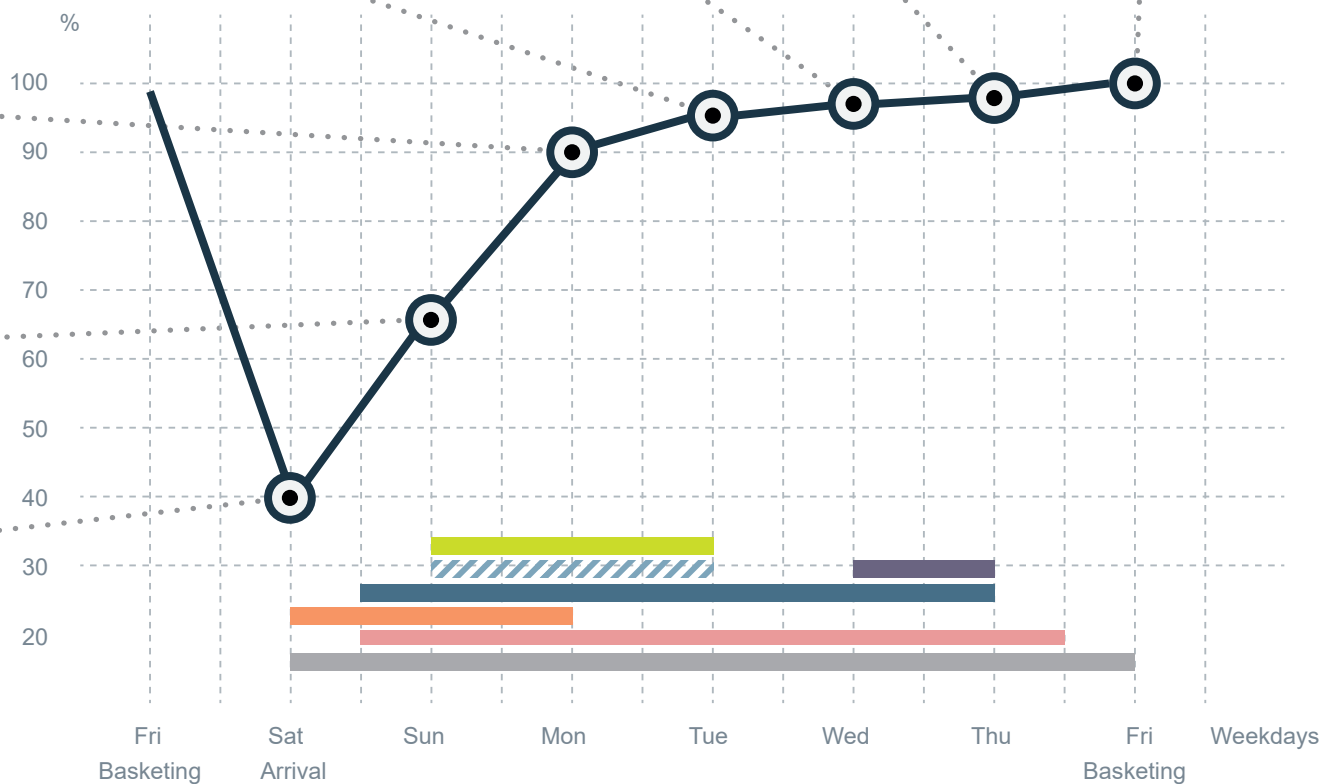
From 400 km, the pigeons receive a meal containing highly absorbable vitamins and trace elements to improve their physical condition. The drinking water contains not only L-carnitine but also elemental iodine and a highly absorbable source of iron for top physical condition.

## Thursday

The pigeons are supplied with vitamins via the feed on both meals. In order to get the pigeons in top physical condition, we recommend adding Butafosfan to the drinking water in addition to L-Carnitine.

## Basketing day

On the basketing day, we recommend feeding only Butafosfan with the drinking water. We also recommend treating airways with probiotic nasal drops when placing the bird into the basket

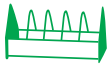




# Röhnfried® Feeding concept

## Racing day

### Feed supplements



after the flight:  
Keeping airways free:  
**Avisana**

Keeping airways free:  
Give **Rozitol** every 3 weeks  
and before important flights.

### Water additives



Accelerating Regeneration:  
**1<sup>st</sup> drinker**  
**Rotosal + Mumm + Bt-Amin® forte**

Reducing infection pressure:  
**2<sup>nd</sup> drinker**  
**Avidress + UsneGano**

### Minerals (after feeding)

**Leckerstein®**

## Sunday

morning + evening:  
Accelerating Regeneration:  
**Moorgold + K+K Protein 3000**

Strengthening immunity:  
**Immun booster + Entrobac**

if required: Keeping airways free:  
**Atemfrei + Avimycin forte**

Reducing infection pressure:  
**Avidress Plus + UsneGano**

Stimulating the metabolism:  
**Carni-Speed**

**Grit mit Anis**

## Monday

morning:  
Strengthening immunity:  
**Moorgold +**  
**Immun booster +**  
**Entrobac**

if required: Keeping airways free:  
**Atemfrei + Avimycin forte**

Reducing infection pressure:  
**Avidress Plus**

Stimulating the metabolism:  
**Carni-Speed +**  
**Hexenbier**

**Leckerstein®**



# 100 - 700 km

## Tuesday

morning:  
Strengthening immunity:  
**Moorgold +  
Immunbooster**

if required: Keeping airways free:  
**Atemfrei + Avimycin forte**

Reducing infection pressure:  
**Avidress Plus**

Stimulating the metabolism:  
**Carni-Speed +  
Hexenbier**

**Grit mit Anis**

## Wednesday

morning:  
Strengthening immunity:  
**Oregano-Schaffett +  
Immunbooster**

over 400 km in the evening:  
Replenishing vitality reserves:  
**Oregano-Schaffett +  
RO 200 ready**

Reducing infection pressure:  
**Avidress Plus**

Stimulating the metabolism:  
**Carni-Speed +  
Blitzform**

**Reisemineral**

## Thursday

morning:  
Strengthening immunity:  
**Oregano-Schaffett +  
Immunbooster**

evening:  
Replenishing vitality reserves:  
**Oregano-Schaffett +  
RO 200 ready**

Stimulating the metabolism:  
**Carni-Speed +  
Rotosal**

**Reisemineral**

## Basketing day / Friday





while basketing:  
keeping airways free:  
**Avisana**  
Stimulating the  
metabolism:  
**Rotosal**

### Tip:

As the last meal before  
insertion, we  
recommend feeding  
5 ml Rotosal for 20  
pigeons over peeled  
sunflower seeds.



# Röhnfried® Feeding concept

	Racing day	Sunday	Monday
 <b>Feed</b>	while separating: <b>Avisana</b>	morning: <b>Moorgold + Entrobac + K+K Protein 3000</b>  evening: <b>Moorgold + Entrobac + K+K Protein 3000</b>	morning: <b>Moorgold + Entrobac + K+K Protein 3000</b>  evening: <b>Moorgold + Entrobac + K+K Protein 3000</b>
 <b>Water additives</b>	<b>Rotosal + Bt-Amin® forte + Mumm</b>	<b>Rotosal + Bt-Amin® forte + Mumm</b>	<b>Avidress Plus + UsneGano + Carni-Speed</b>
	Saturday	Sunday	Monday
 <b>Feed</b>	evening: <b>Oregano-Schaffett + Immunbooster</b>	evening: <b>Oregano-Schaffett + Immunbooster</b> per pigeon: <b>1 RO200 Tabs</b>	per pigeon: <b>1 RO200 Tabs</b>
 <b>Water additives</b>	<b>Avidress Plus + Carni-Speed + Blitzform</b>	<b>Avidress Plus + Carni-Speed + Blitzform</b>	<b>Avidress Plus + Carni-Speed + Blitzform</b>



# 700 - 1000 km

**Tuesday**

evening:  
**Atemfrei + Avimycin forte**

**Mineraldrink +  
Carni-Speed**

**Tuesday**

per pigeon: **1 RO200 Tabs**

**Avidress Plus +  
Carni-Speed**

**Wednesday**

in the evening after the free flight:  
**Rozitol**

evening:  
**Atemfrei + Avimycin forte**

**Mineraldrink +  
Carni-Speed**

**Wednesday/basketing day**

while basketing: **Avisana**

**Thursday**

evening:  
**Oregano-Schaffett +  
Immunbooster**

**Avidress Plus +  
Carni-Speed**

**Friday**

**Friday**

evening:  
**Oregano-Schaffett +  
Immunbooster**

**Avidress Plus +  
Carni-Speed**

**Saturday**





# Frequently asked questions...

*The most important questions at a glance – answered by Frederik Wolf, product manager*



***I have doubt that my pigeons drink too little of the water containing Avidress Plus***

If the pigeons do not want to drink the water with Avidress Plus, the dosage should be halved for one to two weeks to get them used to the taste. When the pigeons are used to the taste, they will also drink enough water in the travel season to deliver top performances.



***When is the best time to give electrolyte?***

Unlike humans, racing pigeons do not lose electrolytes during physical exertion, which is why the administration of pure electrolytes for regeneration after the race is not beneficial. However, on the day of the race it makes sense to administer them to replenish the electrolyte levels.



***Immunbooster is poorly eaten. What do you recommend?***

Immunbooster is a further development of the Jungtierpulver. It also contains activated carbon and active trace elements. The activated carbon gives the powder its black colour. The smell reminiscent of chewing gum has been specially developed for pigeons and, after a short period of getting used to it, promotes feed intake.



***How often should Hexenbier be fed?***

Hexenbier should be fed 7-10 days before the season as a cure. The pigeons react to it with increased joy of flying and a very good down moulting. If you have young pigeons that are relatively lethargic, you should use Hexenbier for 7 days in addition to a mixture rich in raw fibre. That way you can get the young ones up in the air quickly. In the travel season, we recommend administering it over a maximum of two days around the middle of the week.

*I could not see any increase in performance after giving Carni-Speed. How do you explain that?*



It takes a few days until the joy of flying increases. This improves behaviour during training, and better training brings better results in flights. Therefore, you should start giving Carni-Speed at least 14 days before the first training flights.

*Can I give Carni-Speed only twice a week at the beginning of the season, so that I can extra performance later?*

The effects achieved by Carni-Speed cannot be achieved in the short term. They can only be achieved if Carni-Speed is administered continuously. If it is fed only twice a week, you will achieve the opposite of what you intended. Fat burning is disturbed because not enough L-carnitine can be provided. So basically it is all or nothing. A minimum of one dose five days a week must be given to benefit from the positive properties of Carni-Speed.

*What can I do if old pigeons catch the young bird syndrome?*



Diseases are always triggered by an increased infection pressure and/or weakened immunity (resistance). This applies in particular to factor diseases, i.e. also to the facultative pathogenic germs, which we hold responsible for the 'young pigeon disease syndrome'. Facultative pathogens cannot cause disease with a healthy immunity. These only become disease factors in connection with immunodeficiency or a high infection pressure. In order to prevent these problems, two things must be clearly emphasised.

- 1. Reduce the infection pressure with Avidress and UsneGano**
- 2. Strengthen Immunity with Entrobac and Immunbooster**

1) Since the amount of pathogenic germs (infection pressure) has a decisive influence on each course of the disease, it is clearly the case that the infection pressure should be reduced during the racing phase, i.e. during the period of highest stress and greatest stress factors. This is a direct preventive measure. There is a whole range of possibilities, which are already very effective alone or combined.

2) High physical performance often leads to a weakened immune system. We all know this general correlation from top athletes who are much more susceptible to infection than other groups of people. Therefore, it should be our goal to help our racing pigeons develop a strong immune system before the racing season.



# The last word goes to the product manager...

In my day-to-day work, I often come into contact with really passionate racing pigeon breeders. We are contacted on the one hand by very successful sports fans, and on the other by sports fans who have yet to see any major successes. But they all have one thing in common: they're looking for improvement. These breeders and fanciers want to achieve more with their pigeons, care for them better or manage them better. So I would like to use my last word this year to explain my approach to preparing for old bird racing to you, on the assumption that the first prize flight will take place on 1 May 2024.

**Beginning of February:** After weaning of the young winter birds among the racing pigeons, we at SG Wolf take our pigeons to a specialised vet who checks the pigeons using crop and cloacal swabs. At the same time, the pigeons undergo a parasitological examination for coccidia and worms.

**Middle of February:** All racing pigeons are given one drop of Rozitol per nostril before they are allowed their first free flight. The pigeons are also given a 10-day course of Avimycin forte and Atemfrei. This ensures perfect airway health and a high level of willingness to fly when free flight starts.

**End of February/beginning of March:** If you are not yet using Avidress Plus, I recommend starting to administer this product by the end of February at the latest. The pigeons have to get used to its flavour. A dose of UsneGano twice a week ensures that the pigeons' droppings are perfect.

**Middle of March:** To enhance the willingness of the birds and females to fly, I recommend a 10-day course of Hexenbier together with Immunbooster in mid-March. This combination rapidly increases the level of willingness to fly, ensures a pink breast and a brilliant white nose.

**End of March:** The first training flights are coming up. If you see that the pigeons are not heading straight into the loft after the training flight, I recommend either letting the pigeons fly around the loft before the next training flight or training them again immediately after arrival.

**Beginning of April:** When the first preliminary flights or additional training flights are coming up, I recommend starting with Carni-Speed. It goes down very well, so the pigeons don't have to get used to the taste, but only long-term administration of Carni-Speed ensures that sufficient L-carnitine reaches the muscle tissue. Pigeons that receive enough of it as early as April train significantly better and the effect of this training is only further intensified by the increasing flight times of the preliminary flights. Once the pigeons have to complete more than two hours of flight time, I switch to the 100-700 km care plan on pages 58/61. I hope that my plan makes it clear to you that prizes can be made not only in winter, but also in spring.

*Have a good race*



## Notes

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There are no vertical margin lines, and the page is completely blank except for the lines themselves.



# Röhnfried®

Miscibility for the drinking trough

	Avidress Plus	Avipharm	Avitestin	Bt-Amin® forte	Gervit-W®	Mineraldrink	RO 200 ready
Avidress Plus	x	no	no	no	no	no	no
Avipharm	no	x	no	yes	yes	no	yes
Avitestin	no	no	x	no	no	no	no
Bt-Amin® forte	no	yes	no	x	yes	no	yes
Gervit-W®	no	yes	no	yes	x	no	yes
Mineraldrink	no	no	no	no	no	x	no
RO 200 ready	no	yes	no	yes	yes	no	x

## Information

All other product combinations, that are not listed in this table, are harmless.



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## More than a brand!

Dr. Hesse Tierpharma is a pioneer for care products and feed supplements. They enable you to provide optimal care and nutrition for your pets.

As one of the innovators in the segment of pigeon nutrition and other animals, we develop and produce care products and feed supplements for healthy and sporting animals.

More than ever, our central principles are oriented close to nature. We want to strengthen your animals through natural ingredients. The result of our intensive development is a range of unique, innovative and efficient nutritional supplements and care products. Being in contact with breeders from all over the world is very important to us, because your feedback enables us to improve our products.

Your Röhnfried specialist supplier



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