



**Röhmfried<sup>®</sup>**

**COURIER**

**EN**



**Product Information**

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



# Röhnfried

– on your side

**Alfred Berger**  
Biologist | General manager

**5. National Champion yearlings 2015**  
**10. National Champion old birds 2015**

For Röhnfried the needs of the modern racing pigeon are the beginning of an optimal feed system. Only once the needs for essential nutrients and active additives are met, can we expect above-average performance in the long term. In addition to the racing, performance also includes regular egg laying with a 100% fertilisation and hatching rate, a short breeding cycle and above all fast-growing young that are as well-developed as possible. In the autumn our concern is for the moulting to go smoothly with excellent plumage development and better fitness and vitality during and after the moult. The aim in winter is gentle purging while maintaining vitality.

We are very good at assessing the individual success factors these days. Only through optimised feeding and accompanying health management throughout the year do we lay the foundations for the best possible performance of our racing pigeons.

### **Optimised feeding with all nutrients and active additives!**

To provide an overview, we would like to suggest to performance-oriented breeders as well as hobbyists feeding plans that meet the needs of the racing pigeon in all phases of life and performance. Our aim is to provide the best possible support for the pigeons without putting unnecessary strain on them. We combine tried-and-tested concepts with the latest innovations from science and research, allowing breeders to fully devote themselves to their pigeons.

*Alfred Berger*

Yours Alfred Berger



*High-gloss polished stainless steel:  
the new filling system extends from transfer to filling to screwing.*



*Part of the team in front of the brand new  
powder plant.*



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# 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.

## 1. Accelerating regeneration:

To speed up recovery we take advantage of the readily available carbohydrates in **Mumm** and the organic phosphorus in **Rotosal**. After a flight, racing pigeons have mainly depleted their energy stores. Therefore, they recover significantly faster after a flight if they are fed carbohydrates and Butafosfan.

### Protein

The day after a flight, we provide racing pigeons with the highly concentrated animal protein from **K + K Protein 3000** to make sure that muscles and tissue are regenerated. This protein is digested easily. It is indispensable for a fast recovery.

### Short chain amino acids

Immediately after the flight, the amino acid stores need to be replenished. **Bt-Amin forte** is designed to accomplish this. It contains large doses of the essential amino acids while also providing the pigeons with the needed B vitamins after the flight without unnecessary stress on the metabolism.

## 2. Reduce infection pressure

We use **Avidress Plus** for the disinfection of the drinking water. This lowers the pH levels of the water. When used in addition to Usne-Gano, it reduces the risk of infection.



You can find our feeding concept for a successful season on pages 4 and 5.

## 3. Strengthening immunity: Improving the immune response

The (1.3/1.6)- $\beta$ -Glucans in the **Immunbooster** activate the immune system while specific cellulose molecules in powder form lead to larger villi. As a result the pigeons are more resilient against infections.

### Probiotics – Healthy from the gut

Providing pigeons with probiotics has been proven beneficial after stress phases, high performance demands, and drug treatment. Probiotic bacteria in **Entrobac** improve the intestinal flora thus strengthening the pigeons' immune response.

## 4. Stimulating the Metabolism

At the beginning of every week, we stimulate the metabolism with **Hexenbier** and iodine. Supplementation with L-carnitine (**Carni-Speed**) allows the muscles to perform at top capacity. Pigeons supplemented in such a way tire noticeably slower in flight and consequently, the training is significantly more efficient. Therefore, cramping feet are a problem of the past.

## 5. Replenishing vitality reserves:

Supplementing the pigeons with additional energy sources is essential for long flights. **Oregano-Schaffett** and our **Energy Oil** supply this energy. We recommend drying with **RO 200 ready** to satisfy the increased metabolic demands.

## 6. Keeping the airways free

After flights in the rain or long express stays treatment of the mucous membranes with **Avisana** is a tried and proven method. After the treatment, the pigeons have bright white noses and clean throats.

### The power of nature

It makes sense to use plant oils and herb mixtures such as **Avimycin forte** and **Atemfrei** (Free Breath), particularly ahead of flights in hot weather, but also before the season starts, to keep the insides of the pigeons' airways free. The most beneficial characteristic of this combination is the fact that it does not damage the intestinal flora.

### Released breathe

Before important races and 2 week before the season starts we have to clean the respiratory tract with **Rozitol**.

## 7. Optimised mineral supply

Aside from the above described targets, the optimal supplementation with grit and minerals should be part of the routine. Including **Reise-Mineral** (Flight) along with **Taubenfreund Grit with Anise** and **Expert Mineral** in the daily feed, ensures that your pigeons will receive the optimal amounts of minerals and trace elements. Furthermore it is possible to give the pigeons some liquid minerals with our **Mineraldrink**.

# Röhmfried® Feeding concept

	Racing day	Sunday	Monday
<p><b>Feed supplements</b></p> <p><b>i</b> All supplements can be fed together in one mixture.</p>		<p>In the morning and evening:</p> <p>Accelerating regeneration:  <b>Moorgold +            K+K Protein 3000</b></p>	<p>In the morning:</p> <p>Strengthening immunity:  <b>Moorgold +            Entrobac +            Immunbooster</b></p> <p>In the evening:</p> <p>Strengthening immunity:  <b>Moorgold +            Entrobac +            Immunbooster</b></p>
<p><b>Water additives</b></p> <p><b>i</b> The recommended water additives can be fed together in one drinker.</p>	<p>Accelerating regeneration:  <b>1st drinker            Rotosal + Bt-Amin forte + Mumm</b></p> <p>Reducing infection pressure:  <b>2nd drinker            Avidress Plus + UsneGano</b></p>	<p>Reducing infection pressure:  <b>Avidress Plus</b></p> <p>Stimulating the metabolism:  <b>Carni-Speed</b></p>	<p>Reducing infection pressure:  <b>Avidress Plus</b></p> <p>Stimulating the metabolism:  <b>Carni-Speed</b></p>

Tuesday	Wednesday	Thursday	Basketing day / Friday
<p>In the morning: Strengthening immunity: <b>Moorgold +</b> <b>Entrobac +</b> <b>Immunbooster</b></p>	<p>Over 250 miles in the evening: Replenishing vitality reserves: <b>Energie-Öl +</b> <b>RO 200 ready</b></p>	<p>In the morning: Replenishing vitality reserves: <b>Energie-Öl +</b> <b>RO 200 ready</b></p> <p>In the evening: Replenishing vitality reserves: <b>Energie-Öl +</b> <b>RO 200 ready</b></p>	
<p>Reducing infection pressure: <b>Avidress Plus</b></p> <p>Stimulating the metabolism: <b>Carni-Speed</b></p>	<p>Reducing infection pressure: <b>Avidress Plus</b></p> <p>Stimulating the metabolism: <b>Carni-Speed +</b> <b>Blitzform</b></p>	<p>Stimulating the metabolism: <b>Carni-Speed +</b> <b>Rotosal</b></p>	<p>Stimulating the metabolism: <b>Carni-Speed +</b> <b>Rotosal</b></p>

**TIP**

- 1. Respiratory:**  
Every 4 weeks and before important races we recommend to give three days **Avimycin** together with **Energy-Oil** over the corn.
- 2. Muscle regeneration:**  
After heavy races we recommend to give 4 meals **K+K Protein 3000**.

# Röhmfried® Feeding concept

	Racing day	Sunday	Monday
<p><b>Feed</b></p> <p><b>i</b> All supplements can be fed together in one mixture.</p>	<p>2 g Winput while separating: <b>Avisana</b></p>	<p>2 g Winput morning: <b>Moorgold + Entrobac + K+K Protein 3000</b>  evening: <b>Moorgold + Entrobac + K+K Protein 3000</b></p>	<p>2 g Winput morning: <b>Moorgold + Entrobac + K+K Protein 3000</b>  evening: <b>Moorgold + Entrobac + K+K Protein 3000</b></p>
<p><b>Water additives</b></p> <p><b>i</b> The recommended water additives can be fed together in one drinker.</p>	<p><b>Rotosal + Bt-Amin forte + Mumm</b></p>	<p><b>Rotosal + Bt-Amin forte + Mumm</b></p>	<p><b>Avidress Plus + UsneGano + Carni-Speed</b></p>
	Saturday	Sunday	Monday
<p><b>Feed</b></p> <p><b>i</b> All supplements can be fed together in one mixture.</p>	<p>2 g Winput  evening: <b>Oregano-Schaffett + Immunbooster</b></p>	<p>2 g Winput evening: <b>Oregano-Schaffett + Immunbooster</b>  per pigeon: <b>1 RO200 Tabs</b></p>	<p>per pigeon: <b>1 RO200 Tabs</b></p>
<p><b>Water additives</b></p> <p><b>i</b> The recommended water additives can be fed together in one drinker.</p>	<p><b>Avidress Plus + Carni-Speed + Blitzform</b></p>	<p><b>Avidress Plus + Carni-Speed + Blitzform</b></p>	<p><b>Avidress Plus + Carni-Speed + Blitzform</b></p>

# 700 - 1000 km

Tuesday	Wednesday	Thursday	Friday
<b>2 g Winput</b>  evening: <b>Atemfrei + Avimycin forte</b>	<b>2 g Winput</b> in the evening after the free flight: <b>Rozitol</b>  evening: <b>Atemfrei + Avimycin forte</b>	<b>2 g Winput</b>  evening: <b>Oregano-Schaffett + Immunbooster</b>	<b>2 g Winput</b>  evening: <b>Oregano-Schaffett + Immunbooster</b>
<b>Mineraldrink + Carni-Speed</b>	<b>Mineraldrink + Carni-Speed</b>	<b>Avidress Plus + Carni-Speed</b>	<b>Avidress Plus + Carni-Speed</b>
Tuesday	Wednesday/basketing day	Friday	Saturday
per pigeon: <b>1 RO200 Tabs</b>	while basketing: <b>Avisana</b>		
<b>Avidress Plus + Carni-Speed</b>			

## 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 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.

**Tip:** 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.

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



## Feeding concepts winter/rest:

The winter can be used to get the animals in the best possible condition for breeding and racing after moulting. Vaccinations are also carried out in winter. Only if the pigeons are fed properly including all essential nutrients is it possible for vaccines to work properly and for immunoglobulins (antibodies) to develop. This includes optimum feeding in the long term and intermittent administration of feed supplements that support the immune system. Furthermore, the feeding concept for the winter phase is based on high-fibre with a high percentage of filling crude fibre. Protein content is reduced to avoid metabolic strain. Dosed administration of vitamins and trace elements in the winter ensures the best possible preparation, especially before and after vaccinations. Proper drinking water hygiene should also be part of any feeding concept during the rest and winter period.

**Tip:** After moulting and until coupling feeding should be kept to a minimum.

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



## Feeding concept: young pigeons during the training phase

Young pigeons in the training phase (no later than 6 weeks prior to the show flights):

If the young pigeons do not show great willingness to fly, their health must be checked (trichomonads, intestinal parasites, general bacterial infection etc.). At the beginning of the training phase the youngsters should get used to the training basket. As feed we recommend a light mix, to get the pigeons to explore their environment. If they then become more inclined to fly, this has to be taken into account through adding fat-containing grains. If the young still don't show much willingness to explore despite being in excellent health, we recommend that you add Carni-Speed to their drinking water for 7 days. After that the pigeons should want to fly a lot. As soon as the training phase starts, infection pressure should be lowered and the immune system strengthened from the gut. Once the preliminary flights are over, you should convert to the feeding concept of old pigeons (page 4/5).

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	
Avidress Plus 	x	x	x	x	x	x	x



## Products 2019

Accelerating regeneration

8

Replenishing vitality reserves

22

Reducing infection pressure

14

Keeping the airways free

24

Strengthening immunity

16

Optimised mineral supply

28

Detoxification

19

Vitamins

31

Stimulating the metabolism

20

Medicine/Insecticides

33

### IMPRINT

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Print: Druckcenter Linsen · Siemensstr. 12 · 47533 Kleve

Edition: 3.000 pieces

Publishing year: 2019

Cover photo: © Adobe Stock

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## Speeding up the recovery

**Our first goal in the week after every competitive flight is a speedy recovery. Science provides us with the necessary insights for supporting the recovery with demand-oriented strategies.**

Every competitive flight is stressful. The longer the flight, the more energy is spent. Today's well informed breeders know that carbohydrate is metabolised in the first flight phase. Then, after about an hour of flying, the fat burning process supplies the pigeons with most of the energy. In flight, protein is negligible as source of energy.

Independent of whether pigeons in flight have the wind in their backs or coming from the front, immediately after the competitive flight, pigeons start building up their energy reserves. The simplest and fastest way to do that is to store carbohydrates as glycogen in the liver and muscles.



It therefore stands to reason to shorten the recovery phase by feeding carbohydrates as early as possible. The 'fastest' way is adding carbohydrates to the water. Feeding carbohydrate-rich grains builds up energy resources in a slightly slower process. Pigeons tend to drink plenty of water immediately after their return to the loft. Therefore, providing carbohydrates in the drinking water has the additional advantage of quickstarting the rebuilding of energy stores. We recommend adding a mix of fast and slowly metabolised carbohydrates to keep the blood sugar level balanced.

In the course of longer competitive flights, increased fat burning is another factor. This involves the oxidation of free fatty acids, a process, which also leads to the formation of ketone bodies. After more than 2 hours of flight time, we therefore recommend adding the organic phosphorus supplement Butafosfan to the feed to speed up the utilisation and clearance of metabolic side products. For many years now, Butafosfan has been fed to working animals to lighten the stress on the liver and to accelerate the recovery after physical stress. Especially in cases of medium and intense exhaustion, the pigeons recover fast and quickly regain their physical strength.

Antioxidative vitamin C can not only help to replenish depleted glycogen stores on a cellular level, but it can also strengthen the body's own defence system and accelerate the regeneration process.

Moreover it supports iron absorption in the gastro-intestinal tract and is a part of the body's own hormonal synthesis. Additionally, this valuable vitamin also participates indirectly in the fat burning process in the muscular system. That is why we recommend to supplement vitamin C immediately after the race.



# Mumm

Feed supplement for pigeons



- Flight energy
- Tonic
- Regeneration

**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. **Mumm** also contains various vitamins, potassium and magnesium, which ensures straightforward muscle regeneration after the flight.

### Feeding recommendation:

During the entire racing period, **Mumm** should be given via the trough. Before the flights 2 measuring spoons (10 g) with 1 l water for 2 days. On the flight day only clear water. It is important to feed **Mumm** after the pigeons' return for 1-2 days (2 measuring spoons (10 g) with 1 l water) to ensure fast recovery. Can be fed together with Rotosal. Can be fed together with Rotosal.

400 g

Art.-No. 11499



*"Rotosal is in the drinking water whenever my pigeons come home from a flight. Shortly after drinking the Rotosal the pigeons are at their level best again."*

- 2nd National Champion 2014 with old birds
- 7th National Champion 2016 with yearlings
- 4th National Champion 2018 with yearlings

*Klaus Steinbrink*

# Rotosal

Feed supplement for pigeons

10%  
Butafosfan



- Regeneration
- Liver relief
- Improving performance

**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.

250 ml

Art.-No. 11417

**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.



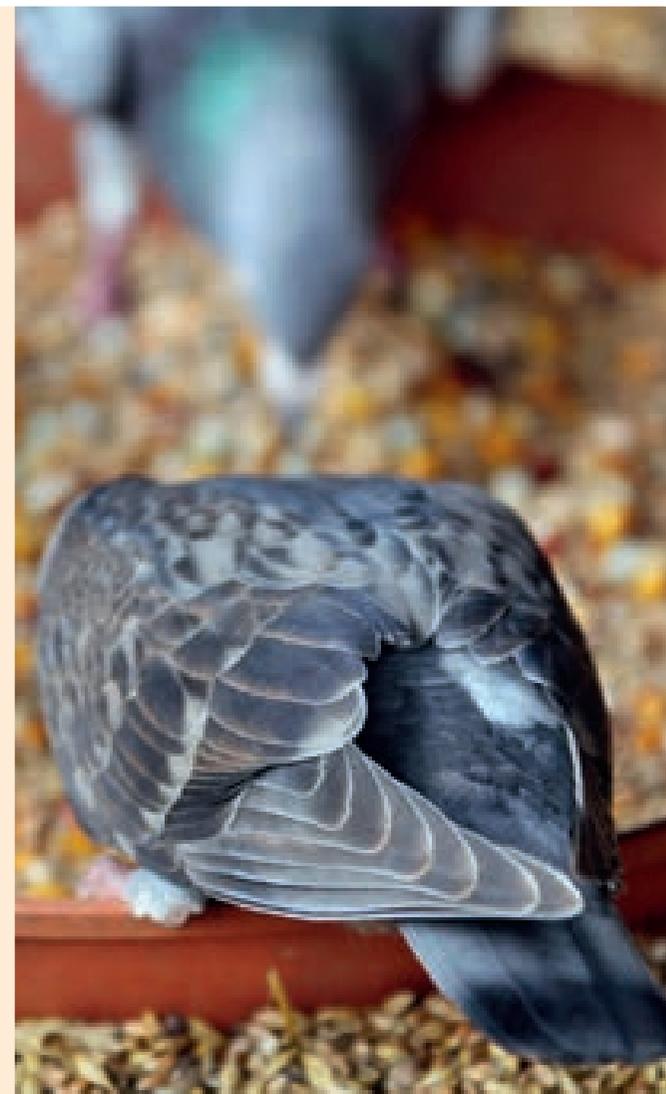
Under no circumstances should you feed large amounts of protein on the day the pigeons fly. In such a case, the metabolism would first genera-

te 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.



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® Dragees

Feed supplement for pigeons



- Individual Feeding
- Muscle Building
- Recovery/Regeneration

Coated **K+K protein**® tablets contain readily digestible animal protein. This protein is extracted from top quality blood plasma. It also contains methionine, lecithin, and magnesium to support the fast recovery of racing pigeons. The tablets cause hardly any metabolic stress. Therefore, they are well-suited for the individual supplementation of pigeons arriving late from a flight or very exhausted pigeons.

### Feeding Recommendation:

One coated **K+K Protein**® tablet (0.54 g) per pigeon after the race.

100 tablets

Art.-No. 11314

## Sedochol

Feed supplement for pigeons



- Liver protection
- Regeneration
- Moulting & Breeding help

**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. **Sedochol** is especially recommended when changing rations and to promote digestion.

### Feeding recommendation:

After stress, during breeding and moult 10 ml per 1 litre of drinking water or 750 g feed. The solution has to be changed daily Sedochol can be fed with **Avidress Plus, UsneGano, Elektrolyt 3Plus** together in a trough.

500 ml

Art.-No. 11347

1000 ml

Art.-No. 11348

## K+K Protein® 3000

Feed supplement for pigeons



- Multi-protein
- Muscle development
- Immune support

**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**. **Breeding and moulting period:** 4 meals per week.

500g

Art.-No. 11613

# Short Chain Amino Acids

1.



Recent studies on various types of endurance sports indicate that the supplementation with short chain amino acids in addition to readily available carbohydrates as early as in the first two hours after a competitive event improves the regeneration of exhausted muscle tissue. The rationale behind it is the expectation that engaging in intensive endurance sports will injure muscle fibres, which will regenerate significantly faster if readily available amino acids are provided.

In terms of our recommendations for the improved regeneration and recovery the timing of the supplementation with anabolic amino acids is as important as the amounts. Up to date studies are therefore very significant. According to recent insights we want to give simple amino acids in conjunction with readily available carbohydrates as early as in the first two hours after intensive training or races. As described in the chapter on carbohydrates for the regeneration of energy stores, the glycogen stores in the body are quickly filled up after a flight. Relatively new is the insight that the necessary repair of injured muscle fibres can be induced early. Some data show that targeted combinations of carbohydrates

and the respective amino acids have beneficial effects. This is due to the fact that in homing pigeons as in other animals ingested carbohydrates lead to the increased secretion of the hormone insulin, which also stimulates the synthesis of new muscle protein. With these new insights in mind, our recommendation for the initial recovery phase involving the supplementation with easily digestible carbohydrates in the first drinking water after a competitive flight also favours the hormonally induced muscle regeneration. After a flight, feeding carbohydrates for the regeneration of the energy stores should therefore be combined with the supplementation of short chain amino acids in the drinking water. Different from feeding protein-rich grains or 'modern' protein powders, the respective supplements contain only individual AAs (amino acids) or short chain AA compounds, which are often given in the drinking water. These supplements do not stress the metabolism because they are immediately available to the body without elaborate energy-consuming digestions. Feeding the supplements therefore supports the recovery and does not cause stress on the liver.

Another aspect in favour of feeding amino acid supplements is the insight that full amino acid stores support the immune system.

It is further known that full AA stores help to prevent injuries to the musculoskeletal system.

The muscles show less fatigue and their structural integrity is described as superior. Therefore, amino acids should already be fed before intensive training and competitive flights. Very short intensive stress situations (preliminary and private training flights) lead to acidification due to the presence of lactate; after longer exhaustive activity ammonia accumulates.

Some of the essential amino acids prevent this and are therefore also highly recommended for the preparation in spring to prevent fatigue caused by increased ammonia levels. The new forms of long-term supplementation with highly concentrated amino acids can increase the racing as well as the important training performance.

## Bt-Amin® forte

Feed supplement for pigeons



- Amino acids
- B vitamins
- Electrolytes

**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 liter of drinking water.

While medication cures daily.

In the first drinker on flight day.

In the moulting season 3 times per week.

**Storage:** not more than + 25 °C, tightly, closed and protected from light store!

1000 ml

Art.-No. 11483

# Avipharm®

Feed supplement for pigeons



- Regeneration
- Amino Acid Balance
- Stimulation of the metabolism

**Avipharm** contains electrolytes, vitamins and amino acids. It ensures speedy recovery periods after a flight. Very small protein building blocks make it easier for the pigeon to rebuild essential tissue and also stimulate the metabolism during moulting and breeding. The vitamins in **Avipharm** support the pigeons after treatment with antibiotics and after stress phases.

#### Feeding Recommendation:

20 ml Avipharm daily (4 screw caps full) in 1 Litre of drinking water during the moulting and breeding periods, for raising squabs, after competitive flights, and to meet the increased need for nutrients after treatment with antibiotics.

1000 ml

Art.-No. 10869

# Elektrolyt 3Plus

Feed supplement for pigeons



- Water balance
- Muscle function
- Quick energy

**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. It supports the body's water balance and significantly shortens the recovery phase. It contains magnesium and potassium which are important for proper muscle and heart function.

#### Feed recommendation:

1 measuring spoon (10 g) with 1 litre of drinking water.

600 g

Art.-No. 11308



# Prevention is better than cure

# 2.



**As we know the trough is an ideal medium for pathogenic organisms, which is why they are the main mode of transition of diseases of racing pigeons. For this reason, a lowering of the pH value of the drinking water for racing pigeons became established 10 years ago. Lowering the pH value to 4.5 means that trichomonads cannot multiply in the trough and having to treat this pest with medicine has been reduced to a minimum.**

Traditional preparations for acidifying drinking water reliably and safely exert their effect in the trough and in the upper digestive tract. Initially it was not possible to a sufficient degree to affect the intestinal tract because acids after passing through the stomach are neutralised in the front part of the small intestine by buffer substances of the pancreas. To achieve an effect far into the small intestine,

we started to expand the mode of action using special fatty acids this year. This mix of short and medium-chain fatty acids has the traditional pH value lowering function in the trough and the crop. However, further into the intestine the acids act against difficult-to-combat bacteria such as streptococci, staphylococci and clostridia.

The mode of action of the new mediumchain fatty acids is simple yet very effective. They are not neutralised by the buffer substances and reach the pigeons' small intestine unchanged. The pathogenic organisms want to use the fatty acids as an energy source and therefore absorb them into the cell. In the cell the medium-chain fatty acids have an antibacterial effect and destroy the pathogenic microorganisms. At the same time, the new combination of acids also maintains a good intestinal flora and optimises nutri-

ent uptake. This destroys the pathogens in the intestine and at the same time reduces the risk of reinfection via the trough.

As an addition to the short and mediumchain fatty acids the use of butyric acid has proven to be useful, because butyric acid is a main source of nutrients for the epithelial cells of the intestinal mucosa and therefore strengthens the intestinal mucosa cells and in particular helps regenerate the intestine after illness. These new acid combinations are therefore ideal to prevent intestinal imbalances. To ensure that this combination is as effective as possible experience shows that they should be used over a longer period of time during stress, such as the start of the training phase of the young.

## Avitestin

Feed supplement for pigeons



- Intestinal health
- Drinking water quality
- Metabolic efficiency

**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:

- In general:** 5ml with litre drinking water
- Before and after stress
  - Daily for young pigeons during the training phase.

**Tip:** Get the pigeons used to the flavour gradually.

Please note: Avitestin must not be administered together with **Avidress Plus**. It may be given with **UsneGano**, **Carni-Speed** and **Entrobac** without a problem.

500 ml

Art.-No. 11462

## UsneGano

Feed supplement for pigeons

beardlichen-oregano-mix



- Oregano
- Usnea barbata
- Strengthened combination

**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:

**Pigeons:** Daily to promote digestion, or 2 to 3 times a week. 3 ml /litre drinking water. **Breeding, rearing and moult:** 2-3 times a week. **Racing pigeons:** 1-2 days after race, 2 before the flight. **UsneGano** can also be administered with **Avidress Plus, Carni-Speed** and **Entrobac** in a trough. Storage information: Store well sealed and away from light!

250 ml

Art.-No. 11250

500 ml

Art.-No. 11251

## VitaloTop

Feed supplement for pigeons



- Promotes digestion
- Strengthens the immune system
- Contains chili extract

**Röhnfried 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:** add 5 ml to 1 litre of drinking water 2-3 times a week.

500 ml

Art.-No. 11623

## Avidress® Plus

Feed supplement for pigeons



- Prevent canker
- Healthy pigeons
- Inforce metabolism

**Avidress 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 **Avidress 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. **Avidress Plus** can be mixed with **Carni-Speed, UsneGano** and **Entrobac** without a problem. *Shake before use!*

1000 ml

Art.-No. 11145

5 liters

Art.-No. 11146

# Boosting Immunity

## 3.



**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 proofed 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 proofed 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 proofed 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 hematosis for a faster regeneration of performance and navigation capacities.

## Immunbooster

Feed supplement for pigeons



- Intestinal health
- Binds mushroom poisons
- With Alliin ► Allicin

**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**.

500 g

Art.-No. 11551



# 3.

## Healthy from the gut

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

Probioticum for pigeons



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

**Entrobac** is a feed supplements 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 1kg feed or per 1 l 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 and **K+K Protein 3000**.

600 g

Art.-No. 11547

# Jungtierpulver

Feed supplement for pigeons



- Immune boost
- Healthy gut
- Improve condition

**Jungtierpulver** is characterized by a high protein content and a first used combination to activate the passive and active immune system in conjunction with a proven intestinal protection concept. Especially recommended for young birds and racing pigeons in order to booster the top shape and resilience in periods of stress such as travel, moulting, breeding and in support of treatment.

#### Feeding recommendation:

- after the competition over 1-2 meals; 20 g per kg feed or approx. 40 pigeons.
- Before inserting over 2-4 meals; 10 g per kg of feed, or approx. 40 pigeons.

With increased performance requirements such as breeding, training or molting should be fed 4-5 times a week, 10 g per kg of feed.

500 g

Art.-No. 11373

# Hexenbier

Feed supplement for pigeons



- Increase fitness
- Immune response
- Moulting of down feathers

**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-wart turns white, and the down feathers moult extensively.

#### Feeding Recommendations:

20 ml per 1 Litre drinking water; **Racing Pigeons:** Racing Time: Monday and Tuesday after the flight; **Breeding and Moulting Periods:** Twice a week; without hesitation, **Hexenbier** may be mixed with **Avidress Plus**, **Carni Speed** and **Entrobac**. In the winter months, we also recommend feeding 15 ml per kg feed.

**Please note:** Do not feed to cats! Shake before every Use!

500 ml

Art.-No. 11310

# Winput

Feed supplement for pigeons



- Immune response
- Regeneration
- Flight performance

#### Feeding Recommendation:

Dependent on the expected performance, feed between one and four 4-g dose of **Winput** daily per pigeon; we recommend feeding **Winput** mixed with seeds before the main feeding.

**Racing pigeons:** 3-4 g per pigeon daily when the flights start; **Moult:** 2 g daily per pigeon; **Winter:** 1 g daily per pigeon; **Breeding pigeons:** 2 g daily per pigeon; **Young pigeons:** 3 g to maximally 6 g daily per pigeon; to meet the increased need in cases of acute young pigeon disease we recommend feeding four 10-g doses of **Winput** daily per pigeon (no other feed should be given); large doses of up to 20 g **Winput** per pigeon daily should be given for no more than 5 days.

3 kg

Art.-No. 11198

## Kräuter-Mix

Feed supplement for pigeons



- Down feather moult
- Support of the airway health
- Healing herb mixture

**Kräuter-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-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 Recommendations:

2 Measuring spoons (1 Measuring spoon = 10g) per kg oil (**Energie-Öl**), feed moistened with oregano-sheep fat or **Moorgold**. **Growing Period:** 2-3 times per week; **Races:** 1-2 times per week; **Moulting Period:** 3-4 times per week; **Winter-Months:** 1-2 times per week.

*Do not feed more than 3 measuring spoons per kg feed daily!*

500 g

Art.-No. 11115

## Moorgold®

Feed supplement for pigeons



- Bowel cleanse
- Firm droppings
- User friendly

**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. The new formula of **Moorgold** is gel-like, which makes it particularly user-friendly and efficient.

### Feeding instructions:

During the moulting, resting or breeding in the preparation. As required 2-3 times per week 1 tablespoon per 1 kg feed. To bind we recommend **Jungtierpulver**, **Entrobac** or **Kräuter-Mix**.

1000 ml

Art.-No. 11461

## Taubenglück

Feed supplement for pigeons



- Optimal intestinal mucous Membranes
- Promotion of growth
- Health-promoting herbs

**Taubenglück** tablets stimulate the appetite and digestion of pigeons. The tablets strengthen the pigeons and therefore help to maintain their fitness. **Taubenglück** tablets are also ideal for raising squabs. The valuable herb mixture contains cinchona bark (Jesuit's bark), juniper berries, Fenugreek seeds, gentian root, and anise. This mixture boosts the general health of pigeons.

### Feeding Recommendations:

Racing pigeons receive 1 tablet per day for two days after a race. Squabs receive 1 tablet **Taubenglück** every morning starting on their seventh day of life.

50 g

Art.-No. 11488

420 g

Art.-No. 11502

# L-carnitine and Iodine

## 4.

### 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

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** by Röhmfried. **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.

100 ml

Art.-No. 10850

250 ml

Art.-No. 10851



## Areas of application:

**To improve performance and to disinfect trough water.**

**Dosage:** To improve performance during the racing period: every day 5 ml per 2-3 litres (2 ml/litre) of clear drinking water. On very hot days increase amount of water to 5 litres. On the day of the flight only give clear water! During breeding and moult: 5 ml per 5 litre (1 ml/litre) clear drinking water 1-2 times per week. To disinfect the trough water during the rest of the year: Once a week 5 ml per 5 litres (1 ml/litre) drinking water.

**Tip:** Never use copper and galvanised metal troughs. Stainless steel can be used. Do not use with animals involved in food production. Keep out of the reach of children. Do not use after expiration date. Dispose of unused medicines at the pharmacy.

**Storage information:** Do not store above + 25°C.

# Carni-Speed®

Feed supplement for pigeons



- Muscle protection
- Greater willingness to fly
- Promotes endurance

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:

During the racing season **Carni-Speed** should be administered at least 5 days a week via the trough or the feed. 10 ml **Carni-Speed** with 1 l water, or 1 kg of feed.

500 ml

Art.-No. 11140

# Vital nutrients

## 5.



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 prepa-

ring pigeons for mating. The well-known C and B vitamins are water-soluble. Vitamin B12 is important for the haemato-sis 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 update 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.

## Energie-Öl

Feed supplement for pigeons



- Muscle development
- Energy source
- Lecithin source

**Energy oil** is a natural energy supplement from a mixture of complementary, highquality, cold-pressed oils. The fish oil content provides unsaturated fatty acids and the lecithin ensures smooth lipometabolism. The rice germ oil content promotes muscle development.

### Feeding recommendation:

During the racing season 1-2 times per week mix 5 ml = 1 capsule with 1 kg of grain feed. Dry this mixture slightly with **RO 200 ready**. Shake well before use.

**Storage:** Tightly closed, protected from light and not exceed + 25 °C

250 ml

Art.-No. 11486

# Oregano-Schaffett

Feed supplement for pigeons



- Most efficient powder absorption
- Supplies 99% of the fat
- Contains oregano

**Oregano-Schaffett** consists to 45 % of sheep fat and also contains oregano oil and linseed oil. This composition ensures the maximal energy supply for competitive flights, training, breeding, the raising of squabs, and moulting. The oregano oil improves the digestive process and linseed oil provides unsaturated fatty acids. **Oregano-Schaffett** is also well suited for the absorption of powders.

### Feeding Recommendations:

1-2 Tablespoons of **Oregano-Schaffett** are stirred into 1 kg of grain feed until the oil is evenly distributed. The sheep fat may be briefly warmed up to facilitate this process. The oil coated grain is then ready as feed. We recommend thickening the feed using **K+K Protein 3000**, **Topfit Futterkalk** or **Kräuter-Mix** or **Entrobac**.

600 g

Art.-No. 11479

# RO 200 ready

Feed supplement for pigeons



- Fitness powder
- Improving form
- Improving performance

**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.

600 g

Art.-No. 11253

# RO 200 Tabs

Feed supplement for pigeons



- Increased fitness
- Better performance
- Individual feeding

**RO 200 Tabs** are conditioning tablets containing prebiotics, electrolytes, amino acids, energy-providing nutrients, minerals, trace elements and multiple vitamins. Replenishing the stores of vital substances helps pigeons to achieve their individual top fitness level. The prebiotics promote a healthy intestinal flora.

### Feeding Recommendations:

One **RO200 tablet** per pigeon. **Racing pigeons:** On the two days preceding the racing day and after competitive flights so that the pigeons recover their strength. **Moulting, breeding, and young pigeons:** Twice a week 1 tablet per pigeon.

50 g

Art.-No. 11253

## Probiotic bacteria – small helpers, big effect

# 6.



### In modern pigeon sport maintaining a healthy respiratory tract during the season has top priority.

Traditional methods such as treatment with antibiotics for one or two days leads to poor resistance of the available medicines to pathogens, which can cause respiratory diseases. 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 pro-

cesses 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

**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:

#### Racing pigeons:

- Before each long-distance flight one drop per nostril
- After each long-distance flight on the day of arrival or when separating genders
- After training flights in the rain to protect the mucous membranes from irritation

**All year round:** If nostrils are discoloured or eyes are watery, 2 times a day 1 drop or fully cover the affected skin surfaces. Always shake product well before use! The cleaner can be used permanently.

**Special storage information:** Keep away from frost and do not store above + 25°C.

50 ml

Art.-No. 11416



# 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. These are important in the gut for digestion and a functioning immune system. After their absorption into the blood the mustard oils circulate in the circulatory system bound to proteins and ultimately accumulate in the excretory organs, the urinary tract and the lung, where they also exert their efficacy.

### Avimycin forte

Feed supplement for pigeons



- More top prices
- Metabolic relief
- White noses

**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.

**In preparation for the season:** continuous over 7 days together with breathless. **After the flight at the beginning of the week:** 2-3 days. **Youngster in training:** 3 times a week. **Young pigeons:** to increase the natural vitality in all stress phases (JTK) over several days.

**Avimycin forte** can be combined with any product via the feed. We recommend a use together with **Moorgold** or **Atemfrei**. In addition, feeding can be done via the feed in combination with **K + K Protein 3000** after the flight or **RO 200 Ready** before the flight, as well as immune boosters for young and old pigeons.

400 g

Art.-No. 11626

# 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

Feed supplement for pigeons



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

**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 Recommendations:

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!*

500 ml

Art.-No. 11161

## Bio-Air-Fresh

Spray solution



- Air quality improvement
- Dust binding
- Free Airways

**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.

400 ml

Art.-No. 11487

## 6.

## 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). 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

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.

### Recommended Use:

**Application:** 1 to 2 drops per nostril or 30 drop per liter of water.

**Breeding Pigeon:** 14 days prior to pairing

**Racing pigeons:** 14 days before the first free flight; 14 days before the training races; 3-4 times per season 6 days before important races.

**Youngsters:** always after recovering of the Young Bird Sickness. 14 days before the first training.

50 ml

Art.-No. 11513

# Minerals and Trace Elements

## 7.



**Why do we have to feed minerals? 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 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.

At a glance, minerals and other chemicals are vital for the body whether they are required in larger or trace amounts. As a general rule, they cannot be substituted with other elements. Deficiencies of these elements compromise the well-being and ability to perform. Therefore, minerals and trace

elements must be provided on a continuous basis. Special mineral mixtures are available for various demands. Of course, all our mixtures also contain stomach stones (gastroliths), which are necessary for the mechanical digestive activity of the stomach muscle. Without the stomach gastroliths, digestive problems will ensue and the fed grain is not optimally used. The variety of components in our supplements and the excellent acceptance are the perfect basis for the optimal supplementation.

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.

## Mineraldrink

Feed supplement for pigeons



- Weaning help
- Supplier of minerals
- Egg shell stability

**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:** 5 ml per liter of drinking water. **In preparation for breeding:** 2x per week. **While rearing the youngsters:** 3x per week. **For young pigeons until the racing season:** 2x per week. **After long-distance flights with longer basket stays:** the second day after the flight.

500 ml

Art.-No. 11582

## Lecker-Stein® Minerals for racing pigeons



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

Pigeons like **Lecker-Stein** because of the granulation and the way it is produced. In the breeding period, it prevents mineral deficiency and in races, the included iodine and magnesium have a positive effect on the motivation of the pigeons. The good acceptance ensures that the pigeons also take up enough minerals and trace elements during races.

**Feeding Recommendation:** Liberally provide as much **Lecker-Stein** as the pigeons want to ingest.

12 pieces

Art.-No. 11275

## Zucht- & Mauser-Mineral

Minerals for racing pigeons



- Formation of feathers
- Osteogenesis
- Growth

**Zucht- & Mauser Mineral** 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 Recommendations:** For 75 racing pigeons put 1 measuring cup daily (approximately 140 g) in a trough or on the feeding table; you may also feed small amounts inside the loft cubicle. Adjust the amount to the demand of the pigeon by providing only as much as the pigeon eats in the course of a day.

5 kg

Art.-No. 11190

## Expert-Mineral Minerals for racing pigeons



- Optimal mineral supplementation
- Support of the digestive system
- Excellent acceptance

The gentle production procedures and the granulation make **Expert-Mineral** a treat for your pigeons. The very tasty Expert Mineral is unique in structure composition. The included small stomach stones promote the digestion; the special coating ensures that all pigeon ingest sufficient amounts of minerals.

**Feeding Recommendations: Expert-Mineral** may be fed to pigeon all year; it is beneficial especially during the breeding and moulting periods. After feeding, offer Expert Mineral daily in small quantities.

5 kg

Art.-No. 11020

25 kg

Art.-No. 11021

## Reise-Mineral Minerals for racing pigeons



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

**Reise-Mineral** 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 Recommendations:** Feed 75 racing pigeons 1 measuring cup daily (approximately 140 g) in a trough or on the feeding table; adjust the amount to the demands of the pigeons by providing only as much as the pigeons eats in the course of a day.

5 kg

Art.-No. 11189

## Topfit®-Futterkalk

Special-feed lime for pigeons



- Vitamins
- Minerals
- Trace elements

**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:

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

1 kg

Art.-No. 10955

## Taubenfreund® Grit mit Anis

Minerals for racing pigeons



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

**Taubenfreund 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 **Taubenfreund Grit mit Anis** is due to the added anise oil and the special structure of this mixture.

### Feeding Recommendation:

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

5 kg

Art.-No. 10697

25 kg

Art.-No. 10836

## Standard-Mineral

Minerals for racing pigeons



- Balanced minerals
- Promotes the digestion
- Finely granulated quality

**Standard-Mineral** is a pure natural product; it contains all essential minerals, trace elements, and valuable vital agents and components. Feeding **Standard-Mineral** 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 ½ to 1 measuring cup of **Standard-Mineral** (70 to 140 g) to 80 pigeons in the trough.

10 kg

Art.-No. 11457

## Taubenfit®-E 50

Feed supplement for pigeons

**vitamin E  
& selenium**



- Preparations for breeding
- Muscle building
- Cell protection

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. In addition, selenium has a positive effect on the immune system. Vitamin E is known as antioxidant; it protects unsaturated fatty acids, vitamin A and cells from the deleterious effects of free radicals.

### Feeding Recommendation:

1 Screw cap (5 ml) per litre of drinking water in times of increased performance requirements. **Breeder pigeons:** Provide 5 ml per litre of drinking water on five consecutive days before mating and before the next depositing of eggs (ovipositioning).

**Racing pigeons:** During flights, provide 5 ml in 1 litre drinking water or alternatively 10 ml mixed into 1 kg feed 2 to 3-times a week.

250 ml

Art.-No. 11497

## Pavifac®

Feed supplement for pigeons

**with pollen &  
citric acid**



- Brewer's yeast
- Pollen
- Citric acid

**Pavifac® Spezialbierhefe** is a valuable natural product. Brewer's yeast contains amino acids, minerals and trace elements as well as B complex vitamins, minerals in high concentrations. The pure amino acids in the yeast facilitate the upbringing of the newly hatched pigeons and support an optimal change of plumage. The supplied vitamins and trace elements ensure the healthy development of the young animals through all stages and improve the feed utilisation.

### Feeding Recommendations:

2 Tablespoon **Pavifac®** per 1 kg slightly moistened feed once or twice a week; Röhnfried **Oregano-Sheep Fat** is ideally suited as thickener.

**Storage:** Keep in a tightly closed container and protect from moisture!

700 g

Art.-No. 11614

## Taubengold®

Feed supplement for pigeons



- Growth the feathers
- Glossy feathers
- Moulting aid

During moulting, **Taubengold®** is indispensable for the formation of the new plumage and to avoid nutritional deficiencies. **Taubengold®** with its high content of the sulphur-containing amino acids, methionine, and choline ensures a first-rate plumage. The reduced strain on the liver increases the well-being of squabs. The calcium and trace elements in **Taubengold®** are beneficial for moulting.

### Feeding Recommendation:

**During the moulting and upbringing of pigeons:** add 20 ml per litre drinking water or on top of 750 g feed.

1000 ml

Art.-No. 10528

## Gervit-W® Tauben

Feed supplement for pigeons

now with betain



- 18 vitamins
- Balancing of vitamins
- Enhance fertility

**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:

**Gervit W®** is given during the breeding and racing period twice a week, 2 full screw caps = 10 ml **Gervit W®** with 2 litres of water or 1.5 kg grain feed. During the rest of the time, giving **Gervit W®** once a week is enough. To meet increased vitamin needs, administer **Gervit W®** several times a week. Do not give **Gervit W®** during the racing season on day the of a flight. Copper and iron troughs can have a negative effect on the shelf life of the vitamins.

100 ml  
500 ml

Art.-No. 10500  
Art.-No. 10502

250 ml  
1000 ml

Art.-No. 10501  
Art.-No. 10503

## Flugfit Flughopper®-Dragees

Feed supplement for pigeons



- Vitamin supplement
- Strength
- Stamina

**Flugfit Flughopper-Dragees** supply pigeons with high doses of vitamins, amino acids, honey, and carbohydrates. The significant benefit of **Flugfit Flughopper-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 when sending it off to a race. Please follow the feeding recommendation on the package insert to the letter. (1 coated tablet contains 0.60 g)

60 tablets

Art.-No. 10529

## Blitz-Maxi-Kraft-Pillen

Feed supplement for pigeons



- Vitamins
- Amino acids
- Anise

**Blitz-Maxi-Kraft** pills are a combination of natural amino acids, pollen and anise. The importance of **Blitz-Maxi-Kraft** lies in the special processing because the combination is released until several hours after administration.

### Feeding recommendation:

**Short distance:** 2 pills before basketing; **Middle distance:** 2 pills before basketing; **Longdistance:** 2 pills on the day before basketing and 2 pills at basketing; **Breeding:** young birds get 1 pill from 10th of the 30th day of their life 1 pill. Furthermore they get 1 pill every three days.

50 tablets

Art.-No. 10944

## Wurm-T (Wormtabs)



- Roundworm
- Hairworm
- Tapeworm

**Wurm T (Wormtabs)** are indicated for treatment against roundworm, hairworm and tapeworm infestations in racing pigeons. They are easy to give and effective in treatment of worm infections.

**Dosage:**

Simply 1 tablet per pigeon, repeat 1 tablet after 6 weeks.

100 tablets

Art.-No. 11409

## Gambakokzid RO



- Canker
- Coccidiosis
- For drinking water

**Gambakokzid RO** is one of our most popular products for the treatment and prevention of Trichomoniasis (canker) and intestinal Coccidiosis and inflammation of crop muscosa worldwide.

For the treatment and prevention in the loft it is recommended to add to the drinking water. Simply add 2 g 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. Following this treatment we recommend administration of **Gervit-W®** for pigeons.

30 x 25 g sachets

Art.-No. 11404

## Gamba Tabs R



- Canker
- Coccidiosis
- Easy to use

**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.

**Prevention dosage (Prophylaxis)** during the racing season give 1 tablet per pigeon every 8-14 days. At the beginning of the week. Weaning of Youngsters from parents 1 tablet per Youngster.

**Breeding season:** give one tablet per pigeon 14 days before egg hatching.

**Treatment dosage** – depending on the severity of disease. Give 1 tablet per infected pigeon for 2 -3 days.

**Administer** 1-2 hours prior to feeding and also note, a slight yellow colouration of the droppings may occur.

60 tablets

Art.-No. 11408

## Aparasit®

Anti-parasite spray solution



- Easy to use
- Mites & ticks
- Fleas & lice

**Aparasit®** is an anti-parasite spray solution for pest control. It quickly and reliably destroys mites, ticks, fleas, lice and other pests. Its easy-to-use spray nozzle makes it ideal for treating nesting cells and equipment.

### Instructions:

**Aparasit®** works against ticks, lice, mites and other pests. The pigeons' head, beak and especially the eyes must be protected. The young without full plumage, feed, eggs and drinking water must also not be sprayed. The majority of the parasites are in the pigeons' environment. Therefore especially the nesting cells, seating and the immediate environment should be sprayed thoroughly. Especially in the case of tick infestation, the treatment should be repeated after 3 days.

750 ml

Art.-No. 11485

## Badesalz

Bath salt for pigeons



- Insect repellent
- Plumage care
- Skin care

Röhmfried **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.

### Application:

1 measuring spoon of approx. 20g bath salt is added to 10 l bathing water. Depending on the weather, the pigeons should be offered a bath 1-2 times a week.

800 g

Art.-No. 10531



Every pigeon fancier wants to have pigeons of excellent racing and breeding performance. There are many parameters influencing this, mostly depending on the breeders themselves. The quality of the pigeons (correct selection), the quality of the loft, the motivation, the training, or the management of the loft – all these parameters are important. But they are of no use if the pigeons are not healthy.

Even the best pigeons cannot reach a top condition when suffering from parasites or an infection. Besides the right hygiene and nutrition, vaccinations are the most important instrument to prevent infectious diseases. A vaccination plan is essential to every loft. It is very important to provide special vaccination dates in the annual care-taking plan. It is also important to prepare the pigeons for the vaccinations. That means they should be in very good health and show no symptoms of illness. Therefore, the pigeons must be treated for parasites before they get the vaccination (ideally 2 to 3 weeks in advance). Additionally, their natural resistance should be boosted. Lots of stress, like heavy training or separation, should be avoided right before and after the vaccination.

## Paramyxo vaccination annual plan

In case, the pigeons cannot be checked by the veterinarian for coccidiosis, canker and worms, we suggest to follow this plan:

**1. Old pigeons** should get the vaccination during a rest period, i.e. between the moult and the breeding season, but no later than 3 weeks before the first training flight. When

pairing the racing pigeons, too, you should follow this care-taking concept:

- 6 weeks prior to the pairing – canker treatment for 5-7 days with **Gambakokzid RO** + simultaneously **Entrobac**
- 4 weeks prior to the pairing **RO 200 Ready + Immunbooster + Moorgold**
- 3 weeks prior to the pairing paramyxo vaccination

Vaccination 3 weeks prior to the pairing ensures the high-degree transmission of the antibodies to the young pigeons. The parasite treatment prevents breeding disorders and avoids infections of the young pigeons. **Entrobac**, **Immunbooster** and **RO 200 Ready** enhance the natural resistance and vitality of the pigeons.

**2. Young pigeons** should always get the vaccination twice during their first year. It is especially important to ensure best care and rest of the youngsters in preparation to the vaccination. If the parents were well prepared for the breeding and if the youngsters and their droppings look decent, usually there is no need for a parasite treatment. Any low degree infection by canker or coccidia stimulates the development of the immune system, and thus has a positive influence on the health of the pigeons. Besides this, it makes sense to keep the infection pressure low by feeding **Avidress** and **Entrobac**, which prevents optionally/potentially pathogenic germs immediately after the separation.

**In our regard, there are two vaccination concepts for young pigeons:**

- First vaccination 5 days prior to the separation. However, the pigeons must be at least 3 weeks old. The second vaccination is applied 3-4 weeks after the separation.
- or
- First vaccination one week after the separation, as soon as the pigeons got accustomed to their new environment. Apply second vaccination 3-4 weeks after that.
- In any case, one should avoid simultaneous vaccination, and separation of the youngsters. Being separated from the parents and moving into a new environment is a lot of stress to the young pigeons and reduces their resistance.

If the youngsters for any reason should fall ill after the separation, the vaccination should be delayed for 1-2 weeks. However, it is important that they get the second vaccination before the pigeons intensively train and race. 4-5 days before and after the vaccination we suggest to feed **Immunbooster + Entrobac + Moorgold** in order to stimulate the immune system. You should be aware of the fact that only the correctly vaccinated pigeons can develop a sufficient immunity and that a good preparation to the vaccination can save the pigeons from potentially negative effects.

# 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 oocysts with the droppings of infected pigeons. It is important to know that only sporulated oocysts 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 stained 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.





## Relevance

Nematode (hair worms and round worms) are types of worms often diagnosed amongst pigeons. Cestodes (tapeworms) which need an alternate host for their life cycle do not play a major role and are usually found only with single pigeons and never in a complete stock. Hair and round worms live in the small intestine of the animals. A low affection does not trigger symptoms, but it might cause a loss of condition and lower performance. Heavy affection disturbs the general well-being of the pigeon and might—in rare cases—cause a sudden death.

## Germ

Two of the most important nematodes with pigeons are: *Ascaridia columbae* (round worm) and *Capillaria obsingata* (hair worm). They have a direct life cycle (no alternate hosts). The infection of the pigeon happens by ingestion of infectious worm eggs. The eggs of both kinds are very resistant against many disinfectants, they tolerate frost and remain infectious for many months. In clinical terms, an infection with hair worms is more dramatic than an infection with round worms. One reason is that hair worms deeply penetrate the mucosa and feed from blood and tissue liquid. That's how they severely damage the mucosa of the small intestine.

It is also important to mention that in contrast to hair worms, round worms are host specific. This means that pigeons can be infected with hair worms through other birds like chicken, crows, sparrows.

The entire life cycle of round worms takes 4-6 weeks and that of hair worms 3-4 weeks (from ingesting the worm egg to secreting the worm egg with the droppings). In order to interrupt this cycle, a worming needs to be done twice, because not all preparations have a worm egg killing effect. Besides, one risks re-infection after the worming by ingestion of the eggs. Therefore, a good hygiene in the loft and disinfection are especially important during worm treatment.

## Symptoms

The symptoms depend on the degree of infection:

### Allgemeinsymptome

- loss of condition and performance
- loss of appetite
- loss of weight
- diarrhea, with hair worms also bloody
- vomiting
- anemia
- paler eyes
- breeding disorders
- sudden death  
(caused by intestinal rupture or obstruction)

## Diagnosis

Affection by hair and round worms is diagnosed by microscopic examination of fecal samples.

## Treatment

You should treat the pigeon with **Wurm-T**. It is suggested to simultaneously feed **Gervit-W**. A thorough disinfection is also unconditional in order to avoid re-infection with worm eggs.



# Salmonellosis (Paratyphus)



## Relevance

Salmonellosis is a major threat to every pigeon fancier. The disease triggers a whole range of damages in the stock. Besides this, it is not easy to detect the disease. Many transmitters (infected pigeons without symptoms) do not secrete the bacteria permanently, but intermittently in intervals of several days.

## Germ

*Salmonella enterica typhimurium* variant Copenhagen is a gram-negative mobile bacillus. This variation is evidenced in 95% of pigeons with paratyphus and is called the pigeon type. Such host specific germs usually cannot infect other species or humans. Infection is possible in 3 ways: oral ingestion (canker milk, infected food or water), inhaling of infected dust or transmission from the female to the egg (transovarial yolk infection or cloacal egg-shell infection by permeating it within few hours). Usually, for healthy, well supplied pigeons with a healthy intestinal flora, ingestion of salmonellae is not dangerous. But infection is possible if the immunity of the pigeon is low (stress). Also, an infection might occur as a concomitant disease or after a treatment with antibiotics without restoring the intestines afterwards (administration of probiotic bacteria). The origin of infection with salmonellae in the environment can only be other pigeons, for example wild or city pigeons and latently infected carrier pigeons (subclinical form), who irregularly secrete the germ with the droppings. Mostly, salmonellae get into the loft by newly bought pigeons, after exhibitions, or

via racing pigeons which took the germ with them from the cabin express. In the loft, the germs can spread over months unnoticed.

## Clinical symptoms

The out-break of salmonellosis in the loft usually happens in the late breeding season. Reasons are stress and low immunity which is related to passing on immunoglobulin to the youngsters. Young pigeons infected by their parents show symptoms while still in the nest, after separation and during the moult. Salmonellosis shows various disease patterns. It depends from the way of infection, the amount of ingested bacteria, and which organs got infected. Not always all infected pigeons in a loft show similar symptoms. Often, it is more a mixture of various symptoms.

### Acute form with young pigeons:

- greenish-yellowish slimy diarrhea, sometimes with blood or blisters (foamy)
- excessive loss of weight
- swollen joints

### Chronic form with old pigeons:

- swelling of joints
- palsy of wings/legs
- imbalance
- twisted head, tremor, wings crawled to the floor
- wind eggs, single egg, permanent infertility of bird and female
- disorder of moult
- sudden deaths among the breeding pigeons
- ulcerous inflammation of skin (heart-shaped inflammation of eye-lids)
- corneal opacity, color change of iris and one-eyed blindness

## Diagnosis

The best moment for the diagnosis of salmonellosis is during the moult. The disease can break out in this period and especially the latently infected pigeons fall ill. The pigeons are weakened by the moult and thus, their immunity is more prone to infections. It also means that it is easier to detect the bacteria in a fecal sample then.

## Treatment

When detecting the described symptoms and suspecting salmonellosis, immediate treatment with antibiotics is unconditional. Ideally, the antibiotic is chosen according to a resistance test and pigeons are treated for 14-21 days.

Additionally, it is recommendable to feed **Entrobac**, **Immunbooster** and **Gervit-W** in order to support the intestinal flora and the resistance. At the same time, the infection pressure must be reduced. That means, all germs in the environment must be eliminated. In order to do so, the loft and all tools inside should be disinfected with Desinfektion Pro (on the second and on the last day of the treatment). But first, the loft needs to be cleaned thoroughly.





# Streptococcosis

## Relevance

Streptococcosis is one of the most important infection diseases among carrier pigeons. The bacteria are widely spread in the environment (e.g., dust, litter, other birds). About 40% of all pigeons are infected with streptococcus, however, without showing any clinical symptoms.

The germ can be found especially in lofts of poor hygienic conditions and amongst the females during the breeding season. A serious problem regarding streptococcosis is that it can easily be mistaken for other diseases like paratyphus or the young bird disease. Therefore a wrong diagnosis is likely.

## Germ

*Streptococcus gallolyticus* (formerly *S. bovis*) is a potentially/optionally pathogenic germ. That means, it only causes diseases under certain conditions. These conditions are not entirely identified, yet. Supposedly, stress, poor hygiene in the loft and viral infections (circovirus, adenovirus) are influential. It is typical for streptococcus to not infect the entire stock but only few pigeons whose condition gets bad very quickly. Very often the infection causes a sudden death within 24 hours after showing the first symptom.

## Clinical symptoms

The course of the disease is very variable and depends from the infected organs. All these symptoms can be distributed over several pigeons and the pigeons might at the same time show other symptoms. Typical symptoms are:

### General symptoms:

- green slimy droppings
- declining racing performance
- apathy and horrent feathering

### Other organ specific symptoms:

- embryonic mortality
- infertility (infertile females and birds)

## Diagnosis

The bacteriological examination of organs after the autopsy of a pigeon is the only safe way to diagnose.

## Treatment

Apart from an adjusted treatment with antibiotics, it is most importantly to improve the hygienic conditions in the loft and to avoid overpopulation. Together with the antibiotic, we suggest a restoring treatment of the intestine with **Moorgold** and **Entrobac**.

The loft should be disinfected with **Desinfektion Pro** also on the second day and after the cure.



# Index

## Products

### A

Aparasit	36
Atemfrei	28
Avidress Plus	17
Avimycin forte	27
Avipharm	15
Avisana	26
Avitestin	16

### B

Badesalz	36
Bio-Air-Fresh	28
Blitzform	23
Blitz-Maxi-Kraft-Pills	34
Bt-Amin forte	14

### C

Carni-Speed	23
-------------	----

### E

Elektrolyt 3Plus	15
Entrobac	19
Energie-Öl	24
Expert-Mineral	31

### F

Flugfit-Flughopper-Dragees	34
----------------------------	----

### G

Gambkokzid RO	35
Gamba Tabs R	35
Gervit-W	34

### H

Hexenbier	20
-----------	----

### I

Immunbooster	18
--------------	----

### J

Jungtierpulver	20
----------------	----

### K

K+K Protein Dragees	13
K+K Protein 3000	13
Kräuter-Mix	21

### L

Lecker-Stein	31
--------------	----

### M

Mineraldrink	30
Moorgold	21
Mumm	11

### O

Oregano-Schaffett	25
-------------------	----

### P

Pavifac	33
---------	----

### R

Reise-Mineral	31
Rotosal	11
RO 200 ready	25
RO 200 Tabs	25
Rozitol	29

### S

Sedochol	13
Standard-Mineral	32

### T

Taubenfit-E 50	33
Taubenfreund Grit mit Anis	32
Taubengold	33
Taubenglück	21
Topfit-Futterkalk	32

### U

UsneGano	17
----------	----

### V

VitaloTop	17
-----------	----

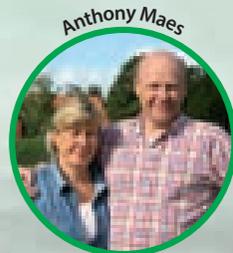
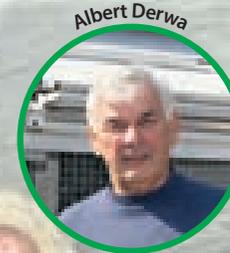
### W

Winput	20
Wurm-T (Wormtabs)	35

### Z

Zucht- & Mauser-Mineral	31
-------------------------	----





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