

# Natural preparations for pigeons

CATALOGUE  
2010



# CATALOGUE 2010

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**Most people who meet us for the first time wonder, what is the origin of the HapLabs brand, who represents the company and what is our experience.**

Although HapLabs appeared on the market at the end of 2009, work on our project had begun in 2008. We devoted the intervening time on developing our product offer and testing it in the field. And for this reason, when you buy any one of the HapLabs preparations, you can be certain that you get a well-tested and efficacious product.

## **THE STAFF AND PRODUCTION PLANT**

HapLabs products are manufactured in Poland and are based on recipes developed at our company. Our products are manufactured at the PROFEED production plant in Bydgoszcz, whose owner has been dealing with animal nutrition issues for 20 years and who is one of the most eminent of Polish herbalists. The production plant is under veterinary supervision and meets all the legal and sanitary requirements. The staff of HapLabs is a team of young, yet experienced, professionals. We employ specialists in animal husbandry, biochemistry, nutrition technology and veterinary medicine.



## **HapLabs - TOP QUALITY AND THE HIGHEST PROFESSIONAL LEVEL**

One day we had a thought: wouldn't it be wonderful if pigeon breeders were provided with something really good? If they could buy natural preparations of top quality? We are happy to do something in line with our values ("If you do something, do it well") and at the same time to be among the leading European producers. We can be absolutely confident about it. HapLabs offer is a fully professional line of preparations for pigeons. You can convince yourself about it if you but once buy and apply our products in your pigeon breeding.

## **ONLY NATURAL INGREDIENTS**

We know that it is possible to achieve good breeding results (be it in breeding of homing or fancy pigeons) without using excessive amounts of antibiotics. We even think that only this mode of action will bring permanent effects and will make it possible to use individual birds for a really long time, which is a valuable opportunity with such precious birds. At HapLabs we have decided to promote the healthy and natural rearing of pigeons. We offer a prevention programme based on herbal and bioactive substances of natural origin. At the same time we suggest that you leave antibiotics only for really serious problems.



## CUSTOMISED PRODUCTS

We at HapLabs have decided to create distinct preparations which should be given to birds in clearly defined circumstances and to achieve a desired purpose, always suited to the needs of the specific breeding period. Following are the principles which we followed throughout the design work on our line of preparations:



1. HapLabs products **have been developed with pigeons in mind**. Not poultry or quails, but pigeons. They are based on an analysis of the birds' needs, take into account their nutritional requirements and follow commonly adopted nutrition principles applied by pigeon breeders.
2. HapLabs preparations **respond to specific needs**. In our opinion it is a mistake to give birds the same vitamin-and-minerals mixture during the breeding and moulting periods, because pigeons' needs are totally different at these times! For that reason we have separate products for young birds, for breeding pairs, for flyers, for the moulting period, for winter, etc. It is the same with our functional, therapeutic preparations. Our offer includes **only specialised products**: different for the respiratory tract, different for digestion improvement, different for detoxification or other problems.

**We strongly advise you against belief in products with an effect on everything !  
It is only marketing. We know very well that there are no such substances !**



## CUSTOMISED PRODUCTS

Have you ever thought why nearly all human medicines are kept in glass bottles? The answer is simple: only glass containers guarantee product stability! And this is the reason why we have decided to apply that solution. We would very much like the product that you buy to have exactly the same properties as it has on the day when it leaves our production line.

## HIGH INGREDIENT CONCENTRATION

Are you fed up with products that you do not trust? Do you live with a conviction that labels lie and that proud declarations of producers advertise weak, diluted and poorly effective mixtures? We are different! We offer the highest concentrations of ingredients and the richest preparations on the market!





## BREEDING SUCCESS – MANY DREAM ABOUT IT, FEW ACHIEVE IT...



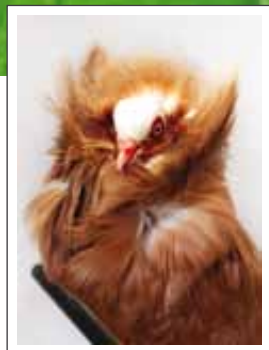
It is obvious that the success of a pigeon breeder is founded on having in his loft valuable and well predisposed birds. However, even the best breed is useless if you cannot keep birds in good health and condition. This is absolutely necessary. And it is not about apparent health and form, which can be improved with drugs for a short time. Stable high-level breeding can be achieved only if the pigeons' organisms are really strong.

Proper nutrition, hygiene and bio-securing of the loft, correct vaccination scheme (entire flock, every year), veterinary supervision over the flock, reasonable breeding methods and prudent application of chemicals (see p. 19) – these are the pillars on which a breeding success can be based. Another element is pro-health preventive measures and proper supplementation of the pigeons' diet during those periods which are difficult for them.

The preparations in the "Breeding Success" line, offered by HapLabs, used in combination with the "Purification" line, described on the subsequent page, provide a range of such supplements. They are a significant help in achieving and maintaining a high health status of a flock of pigeons and provide the base for the HapLabs all-year programme of natural prevention and supplementation (see p. 22-24 and 33-35).

## WHAT CAN YOU FIND IN THE "BREEDING SUCCESS" LINE?

1. Preparations which adjust the microbiological balance in the digestive system – **MICRO Stop** and **4-ACIDS** (p. 6, 7, 20)
2. Multi-component specialist mixtures for the periods of moulting, breeding, for winter, for young birds (p. 8, 9, 10, 12, 23, 24)
3. Convenient and effective anti-fungal **FUNGI Stop** (p. 11, 19, 24)
4. Natural immunostimulant **VITAL Immuno** (p. 13, 21, 23, 24)
5. A high quality oil preparation **7-OILS**, which is also used as a carrier for many powdered products in the HapLabs offer (p. 5)



What distinguishes the HapLabs preparation from others, available commercially, is an extraordinary high quality of the ingredients, rich compositions and high herb content. Dried herbs and extracts which support a pigeon's organism during specific periods can be found even in preparations to be given in moulting or breeding. Bear in mind that pigeons which live in the wild supplement their diet with selected plants; such possibilities do not exist or are only limited in breeding. Therefore, it is worth giving herbs to birds. Properly selected, they provide support in breeding and contribute to improvement of pigeons' health status.



## 7-OILS

### Abundance of omega-3,-6 and -9

#### »» PROPERTIES AND ACTION

**7-OILS** is the most complex and richest commercially available oil preparation for pigeons and ornamental birds. It contains six most valuable vegetable oils and cod liver oil. Unsaturated fatty acids in the preparation (omega-3, omega-6 and omega-9) strengthen blood vessels, clear veins, facilitate blood circulation and increase the strength of the heart muscle contraction. This is very important to pigeons, considering the effort required for long-distance flying. Moreover, **7-OILS** improves calcium absorption, strengthens joints and makes them more flexible, and moisturises the skin and feathers. Given during the moulting period, it imparts flexibility and resilience to new feathers – the properties which are very important in flying. Unsaturated fatty acids as well as numerous vitamin E isomers are also very effective in reducing vulnerability to bacteria and allergens, purifying the organism and improving immunity.

#### »» INDICATIONS AND DOSAGE

**7-OILS** should be given to pigeons to maintain a high level of beneficial fatty acids in the body.

Use it to:

- ensure proper functioning of the circulatory system
- improve flexibility of joints and feathers
- improve birds' immunity
- provide energy before long-distance flights

Give **7-OILS** at the dose of 4-6 mL/1kg of feed

- Before flights – with **MULTI Forma** and **SPRINT Forma**
- Young birds – twice a week (2-3x with **VITAL Junior**)
- Moulting – twice a week (with **PARTITAL**)
- During the hatching period – three times a week (with **DNA Promotor**)

**7-OILS** is an excellent carrier for powdered preparations added to the bird feed. It greases grain, which facilitates the even distribution of the powder or ground herbs on it.

**IMPORTANT!**

**NOTE!** Beneficial fats are oxidised quickly, so after opening the packaging it should be stored in a cool place. Use within 60 days of opening.



#### »» PRODUCT COMPOSITION

Flax oil, soybean oil, sunflower oil, corn oil, peanut oil, olive oil, cod liver oil. The composition of the oils contains high doses of unsaturated fatty acids:

- omega-3 - α-linolenic acid (ALA), eicosapentaenic acid (EPA), docosahexaenic acid (DHA);
- omega-6 - linoleic (LA), arachidonic acid (AA);
- omega-9 - oleic acid (O).

#### »» PACKAGING AND YIELD

250 mL ► 1 bottle = 1000 pigeons

# MICRO Stop

## Healthy digestive tract

### » PROPERTIES AND ACTION

**MICRO Stop** is a 100% natural product which inhibits bacteria and protozoa growth. It contains herbs whose active ingredients reduce bacteria and pathogenic protozoa populations in the digestive tract. Given regularly, it significantly reduces the risk of coccidiosis and salmonellosis in the flock. **MICRO Stop** seals blood vessels, which strengthens the organism's natural protective barrier, and heals damaged intestinal walls. The effect of the preparation is founded on the presence of natural plant extracts which contain active substances of diverse action. For example, they have a cidal effect on pigeon pathogens (*Eimeria sp.*, *Salmonella sp.*, *E.Coli*, *Clostridium*), and at the same time they strengthen the birds' natural defensive systems. It is another benefit that – unlike antibiotic treatment – substances of plant origin do not damage a pigeon's organism or cause a drug-resistance effect to develop in pathogens. Thanks to all this, **MICRO Stop** can be successfully used regularly for a long time, with no fear of its effectiveness diminishing.

### » INDICATIONS AND DOSAGE

- To control pathogenic microorganisms which inhabit the digestive system and to ensure the correct composition of the intestinal flora – a dose of 2 mL / 1 L of water, 2-3 times a week for 1 day is recommended.
- As a preventive measure, it may also be used to protect the flock from infections, for example with salmonellosis and coccidiosis. The preparation is specially recommended to young birds and to weakened birds, in which natural defensive mechanisms are insufficient - with a dose of 2 mL / 1 L of water, 2-3 times a week for 1 day.
- The preparation is used as a supportive agent in such diseases as: salmonellosis, colibacteriosis, coccidiosis, ornithosis, adenovirus and in diarrhoea - 4 mL / 1 L of water for 1 day and then 2 mL / 1 L for the next 4 days.

**IMPORTANT!** To achieve a stronger effect, give the preparation in the same water along with **4-ACIDS** (see p. 20).

**MICRO Stop** can be used regardless of the pigeons' health status, both in flocks which are free from pathogens and in infected ones. Administration to pathogen carriers in sub-clinical states yields very good results, while at the same time reducing the transmission of pathogens to the healthy part of the flock.

### » PRODUCT COMPOSITION

Compounds of plant origin, among others: from oregano, thyme, garlic, cinnamon, cowberry, wormwood and buckwheat.

### » PACKAGING AND YIELD

125 mL ▶ 1 bottle = 1250 pigeons

250 mL ▶ 1 bottle = 2500 pigeons



## 4-ACIDS

### High quality acidifier

#### » PROPERTIES AND ACTION

**4-ACIDS** is a multi-component acidifying preparation for pigeons. Its diverse action is based on lowering the pH value in the digestive tract and cidal effect on Gram-negative bacteria by destroying their cellular membrane as well as interference with the enzymatic complex. **4-ACIDS** reduces multiplication of pathogenic bacteria, such as *Salmonella* sp., *Clostridium perfringens*, and *E.coli*, in the digestive tract. It improves the hygienic properties of water, which is especially important on hot days. Thanks to a high content of fruit acids (citric, malic acids), **4-ACIDS** significantly stimulates pigeons' appetite, increases water and feed consumption and enhances digestion. Those birds which are regularly given the preparation, much less frequently suffer from digestion disorders (diarrhoeas, intestinal infections) and digestive tract diseases.

#### » INDICATIONS AND DOSAGE

**4-ACIDS** should be given in order to maintain the correct functioning of the digestive system and to regulate metabolic processes:

- When changing the feeding scheme and after antibiotic therapy in a disease to prevent disturbance of intestinal balance and to restore the bacterial flora.
- In digestive problems, when faeces is loose, and in cases of decreased appetite.

**4-ACIDS** should be given in the following doses:

- As a preventive measure (change of the feeding scheme, following a treatment) - 2 mL / 1 L of water for 3 days
- Permanent prevention - 2 mL / 1 L of water 2-3x times a week (preferably in combination with **MICRO Stop**, p. 6)
- In emergency (aggravation of digestion, appetite reduction) - 3 mL / 1 l of water for 3 days

**IMPORTANT!** At the dose of 2 mL / 1 L – solution pH = 5,5  
At the dose of 3 mL / 1 L – solution pH = 4,5

#### » PRODUCT COMPOSITION

Malic acid, L-lactic acid, citric acid, propionic acid.

#### DO YOU KNOW?

Apple vinegar is a product of fermentation and can damage the stomach. Instead of the vinegar it is strongly recommended that a mixture of organic acids should be given to pigeons.



#### » PACKAGING AND YIELD

250 mL ► 1 bottle = 2000 pigeons





# PARTITAL

## Full, healthy and flexible feathers

### » PROPERTIES AND ACTION

The preparation facilitates the formation of full, healthy feathers of high flexibility. Proper supplementation during the moulting period is especially important because malnutrition and deficits result in defects in the feather structure. It will have a disastrous effect for sport flyers in the next season. **PARTITAL** contains the optimum amount of proteins, minerals and vitamins, along with a herbal composition. The utmost care was exercised when selecting the exact dose of substances which are of key importance during the moulting period, i.e. sulphur-containing amino acids (methionine, cysteine), iodine, vitamin A, biotin, silicon and zinc. Herbs contained in the product enhance the skin function and stimulate formation of epidermal growths (here: feathers); they also have a generally strengthening effect and regulate the organism's mineral balance. **PARTITAL** ensures proper feather growth and has a beneficial effect on their flying properties in the next season.

### » INDICATIONS AND DOSAGE

The feed additive for the moulting period, **PARTITAL**, should be given to achieve a full and healthy plumage of high flexibility and good flying properties. **PARTITAL** should be used at the dose of 10 g /1 kg of feed, 2-3x times a week. It should be given throughout the moulting period in combination with the **7-OILS** preparation.



### » PRODUCT COMPOSITION

1 kg of **PARTITAL** contains: parts of plants and compounds of plant origin, for example from fennel, lemon balm, valerian, horsetail; Vitamin A 300 thousand units – retinol acetate 103.20 mg; Vitamin D<sub>3</sub> 50 thousand units - cholecalciferol 1,25 mg; Vitamin E - dl- $\alpha$ -tocopherol acetate 2 g; Vitamin C 10 g; Vitamin K<sub>3</sub> 100 mg; B<sub>1</sub> 150 mg; B<sub>2</sub> 250 mg; B<sub>6</sub> 200 mg; B<sub>12</sub> 0,5 mg; nicotinic acid 1500 mg; calcium pan-tothenate 800 mg; biotin 20 mg; folic acid 60 mg; total amino acids 75 g, including sulphur-containing ones 60 g (methionine, cysteine, cysteine); choline chloride 30 mg; Mn 2500 mg; Zn 2500 mg; Fe 2000 mg; Cu (CuSO<sub>4</sub>·x5H<sub>2</sub>O) 300 mg; iodine 100 mg; Se 5 mg; monocalcium phosphate; chalk; table salt.

### » PACKAGING AND YIELD

250 g ► 1 package = 625 pigeons

# DNA Promotor

## Excellent reproduction results

### » PROPERTIES AND ACTION

**DNA Promotor** enhances reproduction and increases the hatching indexes. The preparation contains a whole range of nutrients which satisfy the increased demand during the birds' reproduction period. Only properly nourished birds will yield healthy chicks and will not feel great "fatigue". **DNA Promotor** contains a composition of herbs rich in phytohormones, which regulate the secretion of the bird's reproduction hormones. The preparation also contains vitamins, minerals and substances with a proven effect on the male and female reproductive system. Special care was exercised in selecting the proper concentrations of such compounds as B vitamins, vitamin E as well as calcium and phosphorus, because they are components of key importance for the success of breeding and reproduction. Owing to regular administration of **DNA Promotor** it is possible to achieve healthy chicks, valuable birds and to keep breeding pairs in good health.

### » INDICATIONS AND DOSAGE

**DNA Promotor** should be given to pairs during the breeding period in order to: improve fertilisation and the hatching index and to improve the quality of eggs and chicks. It also improves the amount and quality of crop milk and regulates mating behaviour.

**DNA Promotor** should be given at the dose of 9 -12 g / 1 kg of feed, every other day. It should be given to birds from two weeks before birds join to make couples, until day 7 after hatching. The preparation should be given throughout the season to breeding birds (see the "**Programme for breeding pairs**", p. 33).

### » PRODUCT COMPOSITION

1 kg of **DNA Promotor** contains: Parts of plants and compounds of plant origin, for example from dandelion, lovage, fenugreek; Vitamin A 300 thousand units – retinol acetate 103.20 mg; Vitamin D<sub>3</sub> 70 thousand units – cholecalciferol 1,75 mg; Vitamin E - dl-α-tocopherol 3 g; Vitamin C 10 g; Vitamin K<sub>3</sub> 100 mg; B<sub>1</sub> 360 mg; B<sub>2</sub> 300 mg; B<sub>6</sub> 300 mg; B<sub>12</sub> 1 mg; nicotinic acid 1800 mg; calcium pantothenate 720 mg; biotin 12 mg; folic acid 120 mg; choline chloride 40 mg; total amino acids 110 g, including sulphur-containing ones 45 g (methionine, cystine, cysteine); Mn 3600 mg; Zn 3600 mg; Fe 3000 mg; Cu (CuSO<sub>4</sub>·x5H<sub>2</sub>O) 360 mg; iodine 125 mg; Se 8,5 mg; monocalcium phosphate; chalk; table salt.

### » PACKAGING AND YIELD

230 g

► 1 package = 575 pigeons





# WINTER Forma

Health and good condition in winter

## »» PROPERTIES AND ACTION

The **WINTER Forma** preparation consists mainly of ground parts of plants and herbs with high content of calcium, phosphorus, iron and vitamins. The preparation contains young carrots with leaves, nettle, cut young sunflower and spinach. Birds' winter diet usually consists of poorer food, hence **WINTER Forma** helps to keep the content of biologically important compounds at the right level without having to use concentrated chemical supplements. **WINTER Forma** mildly prevents winter deficits and raises the natural immunity of the flock thanks to the presence of vitamins C and A in the preparation. Herbs are a rich source of macro- and micronutrients and stabilise the digestive processes. **WINTER Forma** is a perfect alternative for raw vegetables, which breeders frequently give to pigeons but which is quite difficult during frosty weather.

### DO YOU KNOW?

**WINTER Forma** contains young carrot, spinach and nettle!



## »» INDICATIONS AND DOSAGE

**WINTER Forma** should be given during the period of winter rest and poorer nutrition in order to prevent any deficit of macro- and micronutrients (especially calcium, phosphorus and iron) and to keep the birds in good health and physical form. **WINTER Forma** should be given at the dose of 3-5 g/1 kg of feed, 2-3 times a week. **7-OILS**, **HEPATIC**, yoghurt or water can be used as the carrier.

## »» PRODUCT COMPOSITION

1 kg of **WINTER Forma** contains: compounds of plant origin, for example from: carrot, nettle, sunflower, cloves, spinach; vitamin A 300 thousand units -retinol acetate 103,20 mg; Vitamin C 10 g; Mn 2000 mg; Zn 2500 mg; Fe 2000 mg; Cu (CuSO<sub>4</sub>·x5H<sub>2</sub>O) 200 mg; iodine 105 mg; Se 5 mg; mono-calcium phosphate; chalk; table salt.

## »» PACKAGING AND YIELD

120 g ► 1 package = 750 pigeons

220 g ► 1 package = 1375 pigeons



# FUNGI Stop

## Mycosis under control

### » PROPERTIES AND ACTION

**FUNGI Stop** is a totally safe, but effective antimycotic agent. It contains iodine and natural components which are excellently effective in controlling populations of fungi occurring in pigeon breeding - *Aspergillus* sp. and *Candida* sp. The preparation also contains components which generally enhance the vital strength of the organism when facing mycosis – vitamin A, which strengthens the bird's protective barriers (mucosa) as well as vitamins B, whose deficit is usually observed in such infections. When used regularly as a spray, **FUNGI Stop** minimises the risk of infecting the loft with mycosis. Given to pigeons with drinking water, it acts locally on the fungi in the specific places which they inhabit, i.e. in the crop, oesophagus and beak cavity.

### » INDICATIONS AND DOSAGE

Give **FUNGI Stop** to pigeons to:

- Control populations of pathogenic fungi in the environment inhabited by the pigeons as well as in their beak cavity, oesophagus and crop.
  - Protect young and weak birds, as well as those after an antibiotic therapy.
  - Protect birds after giving them feed which is not fresh and if the humidity level in the loft is too high.
  - Disinfect the loft and equipment (spraying).
- FUNGI Stop** should be given at the dose of:
- In drinking water – 2,5 mL / 1 L of water for 3-5 days during the period of exposure to mycotic infection and once a week to young birds (in combination with **INHALIC**)
  - In spray – Once a week – spraying the entire loft with the solution of 25 mL / 100 mL of warm water



### » PRODUCT COMPOSITION

1 litre of the **FUNGI Stop** preparation contains :  
Vitamin A 1 mln. units – retinol propionate 358 mg;  
potassium iodide; Compounds of plant origin from:  
calendine, green tea, pine.

### » PACKAGING AND YIELD

125 mL ▶ 1 bottle = 1000 pigeons

250 mL ▶ 1 bottle = 2000 pigeons

# VITAL Junior

## Healthy rearing of young birds

### » PROPERTIES AND ACTION

**VITAL Junior** is a multi-component preparation which has been developed specifically with young pigeons in mind. It contains high quality protein, vitamins, herbs, micro- and macronutrients as well as immunostimulants.

Pigeons grow very fast, their weight increases quickly and their full plumage develops over nearly 6 weeks. Hence their needs are great from the very first days of their lives. Giving **VITAL Junior** to nestlings ensures that they will be provided with all the nutrients necessary for proper development. Breeding pairs which will also get some of the preparation will also benefit from it. It is a great advantage of **VITAL Junior** that it contains  $\beta$ -glucans, extract from onion and garlic. These components stimulate nestlings' immunity and increase the chances of their healthy rearing. Unlike preparations containing extract from Echinacea, **VITAL Junior** can be successfully used over a long period of time.

**VITAL Junior** can be given during the flying period. Given to birds 2-3 times a week, it is an important source of proteins, vitamins and a way of protecting young birds from infections.

### » INDICATIONS AND DOSAGE

**VITAL Junior** should be given with feed at the dose of 10 g / 1 kg, 2-3 times a week. It should be given from the second week after hatching to 4-6 weeks after weaning and during the period of young birds flights. **7-OILS**, yoghurt or liquid herbal preparations (e.g. **HEPATIC**) should be used as carriers.

**IMPORTANT!** Do not give preparations containing onion or garlic to nestlings while giving them **VITAL Junior**. Stop giving them **VITAL Junior** during immunity-stimulating treatment, based on **VITAL Immuno** (p. 13).

### » PRODUCT COMPOSITION

1 kg of **VITAL Junior** contains: protein and essential amino acids 410 g; (1,3/1,6)  $\beta$ -glucan 8 g; onion and garlic extract 30 g; Vitamin A 500 thousand units; Vitamin D<sub>3</sub> 100 thousand units; Vitamin E 2 g; Vitamin K<sub>3</sub> 0,2 g; Vitamin C 5 g; Vitamin B<sub>1</sub> 0,2 g; Vitamin B<sub>2</sub> 0,3 g; Vitamin B<sub>6</sub> 0,25 g; Vitamin B<sub>12</sub> 1,5 mg; calcium pantothenate 0,9 g; nicotinic acid 2,5 g; folic acid 0,13 g; biotin 20 mg; choline chloride 100 g; inositol 5 g; calcium 100 g; phosphorus 50 g; sodium 50 g; chlorine 40 g; potassium 90 g; magnesium 30 g; micronutrients (selenium, iron, manganese, cobalt, iodine) total 14 g.

More about using **VITAL Junior**:

- Healthy rearing of nestlings, p. 24
- Program to supplement young birds' diet during the flight period, p. 35.



# VITAL Immuno

High immunity and perfect health status

## »» PROPERTIES AND ACTION

**VITAL Immuno** is a multi-component preparation to stimulate the pigeons' immune system. It reduces the birds' susceptibility to viral and bacterial infections, enhances the effectiveness of vaccinations, alleviates the effects of infection and reduces the duration of therapy. **VITAL Immuno** contains three types of active substances: p-glucans, herbs and a pool of adjunctive components. p-glucans is a well-tested agent stimulating macrophages, that is, cells which "eat" foreign bodies (viruses, bacteria, fungi). Echinacea, gin-seng and milk-vetch increase the amount of white blood cells, enhance the organism's effectiveness in fighting viruses and speed up cell divisions (quicker regeneration, longer "youth"). The pool of adjunctive substances contains ones which stimulate the development of the immune system's (e.g. thymus) production of antibodies, and which are indispensable in fighting infections.

**VITAL Immuno** should be present in the medical kit of every breeder. Giving it to birds is the best way of keeping them in good health. It makes it possible to reduce treatment with chemical agents and antibiotics. It is absolutely necessary to give immunostimulants to birds during their vaccination periods because they increase their effectiveness. **VITAL Immuno** should also be given to pigeons before difficult moments for them, for example before the flying season and before moulting.

## »» INDICATIONS AND DOSAGE

**VITAL Immuno** should be given at the dose of 5 g / 1 kg of feed:

- During the vaccination period - for 5 days before and 5 days after vaccination. 5-7 days is enough in fixing vaccinations
- Before flying seasons - for 10 days (also before young birds' flights)
- After flying, before moulting - for 10 days
- In breeding pairs during the hatching of eggs (the amount of antibodies in the crop milk increases) - for 5-10 days.
- At any moment during the year, when a problem with recurring infection appears - for 10-14 days

### IMPORTANT!

Closely follow the recommendations.

The time between therapies should be at least 4 weeks. Giving the preparation to pigeons too often may bring the opposite effect to that desired! To mix **VITAL Immuno** with feed, wet it with **7-OILS**, yoghurt or a herbal preparation, for example **HEPATIC**.



## »» PRODUCT COMPOSITION

1 kg of **VITAL Immuno** contains: (1,3/1,6)  $\beta$ -glucan 16 g; dry Echinacea extract 10 g; gin-seng and milk-vetch 300 g; MOS 150 g; protein and essential amino acids 300 g; Vitamin A 600 thousand units; Vitamin E 6 g; Vitamin C 20 g; Vitamin B<sub>1</sub> 0,6 g; Vitamin B<sub>2</sub> 0,4 g; propolis; selenium, iron, zinc.

More about immunostimulation – p. 21



## WE PRESENT FOUR STRONGLY HERBAL PREPARATIONS



It cannot be denied that natural products are increasingly often used by pigeon breeders, which is a thing that makes us very glad. Breeders are more and more aware that better long-term effects can be achieved when such products are constantly present in the birds' diet and treatment than when pigeon breeding is based on antibiotics.

Herbs are one of the elements of a natural therapy, usually given to birds as infusions. The range of their application and action is very broad – from cold, diarrhoea or worms to detoxifying and strengthening mixes. Many breeders are of the opinion that only an infusion made from plants that they themselves pick or buy is really effective. However, one should bear in mind that home remedies do not always work.

## IT IS IMPORTANT HOW YOU PROCESS THE HERBS

Breeders believe that all the valuable substances from herbs pass into the water when an infusion is being prepared. However, there is a whole range of compounds which can be extracted from plants only with alcohol (e.g. silymarin from milk thistle, thymol from oregano). Frequently, elevated pressure is required in the process or other specific conditions have to be met which are unavailable in a home kitchen. We at HapLabs know exactly how to deal with a plant to extract all the precious substances from it. We know which herbs can be dried and ground and which should be subjected to extraction. We also have the suitable equipment which enables us to obtain concentrated herbal extracts.

## WHAT WILL YOU FIND IN THE "PURIFICATION" LINE?

We have developed four herbal purification extracts for the 2010 season:

- **GASTRIC** – a loose mixture of ground herbs and extracts with an effect on the digestive system. It is excellent in diarrhoeas, poisonings or in intestinal mucosa regeneration therapies. It is given with grain, moistening feed with oil, water or yoghurt. When pigeons are ill and do not want to eat, you can make an infusion of **GASTRIC** and give it to birds as a tea (p. 15).
- **HEPATIC and NEFRIC** – herbal extracts, which stimulate the proper functioning of the liver and kidneys, remove toxins from the organism and regenerate it after diseases. They can be given in combination (e.g. after viral diseases or prolonged therapy) or each one separately (p. 16-17).
- **INHALIC** – an excellent mixture of herbs with a positive effect on the respiratory system. It can be used as a preventive measure throughout the year. It comes in very useful during the flight season, in infections and in hot weather (p. 18).

See also "Purification before the season" - p. 22.

## EVEN MORE HERBS

Herbs are contained not only in the "Purification" line preparations. Basically, all our products contain plant extracts or dried plants. We would like to draw breeders' attention to the following: **REVITAL** (p. 32), **MICRO Stop** (p. 7), **WINTER Forma** (p. 10) and **VITAL Immuno** (p. 13).



# GASTRIC

## Purification and stable function of the intestines

### »»PROPERTIES AND ACTION

**GASTRIC** is a 100% herbal preparation which cleanses the digestive system and alleviates nutrition problems. It contains ground plant parts, extracts and essential oils. **GASTRIC** can bind toxins, cleanses intestinal walls from deposits, it has a bacteriocidal effect and stimulates peristalsis. In diarrhoea it binds water, destroys pathogens and has a protective effect on intestinal mucosa. Basic applications of the preparation include cleansing therapy after winter. **GASTRIC** properly prepares pigeons for their new flying and reproduction season. The preparation can also be used in a range of digestive problems, such as diarrhoea, poisonings, and parasitic, bacterial and viral diseases. The systemic detoxifying effect of the preparation is its additional benefit.

### »»INDICATIONS AND DOSAGE

**GASTRIC** should be given:

- After winter to cleanse the digestive system.
- In gastritis and enteritis as well as in diarrhoea to control the pathogen count and to restore the correct functions of the digestive tract.
- In parasitic diseases of the digestive tract.
- In flocks threatened with coccidiosis, salmonellosis, and to nestlings.
- In food poisonings and in drug overdoses to remove residues of harmful substances from intestinal walls.

**GASTRIC** should be given at the dose of:

- Cleansing after winter - 3 g / 1 kg of feed, for 5-7 days
- Digestive tract diseases, poisonings, parasites - 5 g / 1 kg of feed, twice daily for 5-7 days.
- Nestlings - 5g/1kg of feed, once a week (with **HEPATIC**).

**IMPORTANT !** **GASTRIC** should be administered with feed moistened with water or herbs (e.g. **HEPATIC**). Do not give the preparation with oil. **GASTRIC** can be infused and given as a tea (3 measuring spoons/1 L of water).

### »»PRODUCT COMPOSITION

Parts of plants and substances of plant origin: willow, oak, walnut, flax, coriander, caraway, aloes.

### »»PACKAGING AND YIELD

120 g ▶ 1 package = 750 pigeons

220 g ▶ 1 package = 1375 pigeons





# HEPATIC

## Liver regeneration and protection

### » PROPERTIES AND ACTION

**HEPATIC** is a liver regenerating and protecting preparation. It stimulates the functioning of the liver and strengthens and protects the hepatocytic membranes. This enhances all the functions of the organ, including its organism detoxicating capabilities, gives protection against harmful substances (toxins, free radicals, drugs) and improves the general form and condition of the organism. The herbs contained in **HEPATIC** accelerate the creation of new hepatocytes and enhance the digestive function of the liver (boosts bile secretion). **HEPATIC** is a universal preparation to be used all year round. It performs excellently in the spring cleansing therapy and in times of increased effort (flying, reproduction) as well as in emergency situations, such as food poisoning or drug overdose.

### » INDICATIONS AND DOSAGE

**HEPATIC** should be given with feed (recommended) or water:

- After winter, to cleanse the organism from toxins and improve the metabolism - 3 mL / 1 kg of feed or 2 mL / 1 L of water, once daily for 5-7 days.
- Hepatic diseases - 4 mL / 1 kg of feed or 3 mL / 1 L of water, once daily for 30 days
- As a gastroprotective measure during and after antibiotic therapy - 3 mL / 1 kg of feed or 2 mL / 1 L of drinking water, once daily for 5-7 days.
- In food poisoning, viral infections, drug overdose - 4 mL / 1 kg of feed or 3 mL / 1 L of water for 7 days (with **NEFRIC**).
- During the flying season – at least three times a week 3 mL / 1 kg of feed or 2 mL / 1 L of water.

### » PRODUCT COMPOSITION

Contains substances of plant origin from: artichoke, dandelion, calendine, turmeric, milk thistle, St. John's wort, Echinacea; betain; choline, L-carnitine; inositol; sorbitol.



### » PACKAGING AND YIELD

125 mL ▶ 1 bottle = 1000 pigeons

250 mL ▶ 1 bottle = 2000 pigeons

## Purification of the blood and kidneys

### »» PROPERTIES AND ACTION

The preparation stimulates the functioning of the kidneys and removes toxins from the blood. It owes its highly effective action to a combination of herbal compounds with ammonium salt (synergistic effect). It is a non-invasive preparation but one which effectively increases diuresis and boosts blood filtration in the kidneys. **NEFRIC** restores acid-base balance in the bird's organism. Active substances contained in the herbs, such as leiocarpoxide and salicin, have a disinfecting effect on the urinary tract. **NEFRIC** enhances excretion processes, improves the secretive function of the digestive system (bile and enzyme secretion) and restores the correct activity of the organism. Cleansing therapy significantly improves all the pigeon's life functions. It is a good starting point to achieving good reproduction and sporting results.

### »» INDICATIONS AND DOSAGE

**NEFRIC** should be given with feed (recommended) or with water:

- After winter, to filter off any toxins from the blood and restore high metabolic efficiency - 3 mL / 1 kg of feed or 2 mL / 1 L of water, once daily for 5-7 days.
- In treatment of urinary tract and kidney diseases (nephritis, renal calculosis) - 4 mL / 1 kg of feed or 3 mL / 1 L of drinking water, once daily for 7 days.
- In food poisonings, viral infections, drug overdose - 4 mL / 1 kg of feed or 3 mL / 1 L of water for 7 days (with **HEPATIC**).

### DO YOU KNOW?

Every viral infection is damaging to kidneys and liver.



### »» PRODUCT COMPOSITION

Contains substances of plant origin, from: couch grass, goldenrod, burdock, horsetail, dandelion; ammonium chloride.

### »» PACKAGING AND YIELD

125 mL ► 1 bottle = 1000 pigeons

# INHALIC

## Clean respiratory tract

### »» PROPERTIES AND ACTION

**INHALIC** has a cleansing and protective effect on the respiratory tract. It contains 8 different herbs and vitamin A, and their synergistic action imparts to this product's extraordinary properties. **INHALIC** removes deposits and contaminations from the respiratory tract, it has an expectorant effect and stimulates mucosa cilia. It has bacteriocidal and disinfectant properties, so it can be used in mild diseases of the respiratory tract and as a supportive agent in the treatment of serious diseases. On the other hand, on hot days, when the air has a drying effect or if it contains harmful gases and dusts - **INHALIC** acts as a protective balsam. It stimulates mucus secretion and boosts the natural barrier of the respiratory tract. Thanks to the preparation, pigeons can be kept in good respiratory condition, which is crucial to achieving good flying results.

### »» INDICATIONS AND DOSAGE

**INHALIC** should be given:

- After winter to cleanse the respiratory tract and pre-prepare birds for the flying season.
- During the flying period to protect the respiratory tract
- As a supportive agent in the treatment of upper respiratory tract ailments (mycoplasmosis, infectious cold, trichomonadosis, ornithosis)
- As a protective agent on hot days and in poor air quality
- During convalescence periods to regenerate mucosa

**INHALIC** should be given at the following doses:

- »» **In drinking water** – 2,5 mL / 1 L
  - Purification after winter – twice daily for 5-7 days
  - Young birds – once a week (with **FUNGI Stop**)
  - Flights – before and after a flight – once daily
  - Moulting – once-twice a week (with **H<sub>2</sub>O Intensive**)
  - Respiratory tract diseases – twice daily for 5-7 days
- »» **Inhalation** – 10-20 mL / 1 L of warm water, spray inside the loft or apply with an air humidifier
  - On hot days and in poor air quality – twice daily
  - Respiratory tract diseases – 2-3 times a day for the duration of the illness



### »» PRODUCT COMPOSITION

1 L of **INHALIC** contains: substances of plant origin from: anise, peppermint, marshmallow, eucalyptus, plantain, common soapwort; Vitamin A1 million units; retinol propionate 358 mg.

### »» PACKAGING AND YIELD

125 mL ▶ 1 bottle = 1000 pigeons

250 mL ▶ 1 bottle = 2000 pigeons

## NEGATIVE EFFECTS OF ANTIBIOTIC APPLICATION

### ANTIBIOTICS AND PIGEON BREEDERS

When asked why they use antibiotics regularly, most breeders will answer without hesitation that it is “to keep pigeons healthy”. They think that only strong drugs are effective and can bring about quick improvement. It is a common opinion that natural methods, such as those involving herbs or vegetables, may be good but when the flying season comes you need effective and well-tested remedies. Such opinions are usually a result of the lack of knowledge that too frequent or incorrectly performed antibiotic treatments bring more damage than benefits. However, even more aware breeders may be heard saying: “well, this is what the sport is like...”



### MISTAKES IN ANTIBIOTIC APPLICATION

1. “Blind” therapy – breeders give antibiotics to birds without any previous examinations. The drug selection is not based on an antibiogram; it is not even certain if the drug use is necessary.
2. “Preventive” treatment – Giving drugs “just in case”. This includes regular one- or two-day therapies during the flying season and giving birds drugs to treat all possible disease before the season, even though they do not show any symptoms of illness.
3. Ill-suited doses and treatment duration – If antibiotic treatment is too short, infection is not fully cured and antibiotic resistance develops in the bacteria. A similar effect is caused by too low doses of an antibiotic. On the other hand, too high a dose will be toxic and may lead to poisoning of the pigeon's organism.
4. Too frequent antibiotic therapies – this sterilises a pigeon's organism and decreases its natural immunity. One should bear in mind that not all bacteria are pathogens. There are a lot of saprophytes, which naturally inhabit the body. Their presence is beneficial and they prevent pathogens from growth and development. Antibiotics destroy such beneficial bacteria and increase pigeons' susceptibility to later infections. Moreover, frequently administered, antibiotics damage the liver because that is where drugs are decomposed in the bird's organism.

### HOW CAN YOU ALLEVIATE THE SIDE EFFECTS OF ANTIBIOTIC ACTION?

1. First of all, remember to settle natural, beneficial bacteria in the pigeons' bodies by giving them probiotics. This will reduce the risk of sterilisation and will improve the natural immunity of the birds. Also, birds should be given substances which boost the development of beneficial bacteria – acidifiers, prebiotics and herbal preparations (see **4-ACIDS** and **MICRO Stop** p. 6, 7, 20).
2. Look after the mucosa of the upper respiratory tract because here antibiotics weaken the natural barriers. An appropriate preparation can be used for the purpose (e.g. **INHALIC** p. 18).
3. Do not forget about the liver when giving antibiotics to birds. Chemical therapy must always be combined with giving regenerative and liver-stimulating drugs (see **NEFRIC**, **HEPATIC** p.16-17)
4. Apply a thorough cleansing treatment after intensive therapy (see p. 22).
5. Stimulate the natural immunity of the birds by giving them immunostimulants (**VITAL Immuno** - p. 13, 21).



## INTESTINAL BALANCE IS THE FOUNDATION OF HEALTH AND SUCCESS

### THE DIGESTIVE TRACT IS INHABITED BY MICROORGANISMS



It is difficult to imagine, but a pigeon's intestines and crop are inhabited by over 200 species of bacteria and fungi. In a healthy bird, there are over 10 billion microorganism cells at any moment in these places. The number includes beneficial intestinal bacteria (e.g. *Lacto-bacillus sp.*) and so called saprophytes, that is, bacteria and fungi which are potentially harmful, but which do not cause any diseases under normal conditions (e.g. *E.coli*, *Candida*). Why is this so? Everything depends on the natural immunity of a pigeon and on the amount of beneficial bacteria.

1. Thanks to effective immunity, the pool of potentially pathogenic bacteria and fungi is kept at a safe, low level. Moreover, an important role is played by the condition of mucosa (e.g. in the intestines, in the respiratory tract). If the structure of the mucosa is correct, with no holes in it, it is a barrier that microorganisms find very difficult to get through to infiltrate the blood and body organs.
2. The digestive tract is the largest reservoir of bacteria. So called beneficial intestinal bacteria help pigeons to digest food, they stimulate the immune system and they inhibit the growth and development of pathogens. In a word, if there are many "good" bacteria in the intestines, there is not enough space for "bad" bacteria, which then cannot successfully develop. And this is the secret of the "intestinal balance". Hence, in order to effectively reduce the amount of pathogenic bacteria, you do not always have to use antibiotics. Frequently, it is enough just to help the beneficial bacteria.

### HOW CAN YOU HELP "GOOD" BACTERIA TO GROW?

Among the most popular methods in use there is acidification (beneficial bacteria like acidic environments) and increasing the pool of beneficial bacteria by means of probiotics. Herbal preparations which destroy pathogens are also effective, as are prebiotics (various substances) which are growth mediums for beneficial bacteria. Different methods can be used in combination. And this is what we at HapLabs offer to you. Our method is to give herbs and acidifier in the same water.



### MICRO Stop + 4-ACIDS – ALWAYS TOGETHER !

Scientific research and practical experiments indicate that herbal substances and acidifiers act in synergy. Applying the two preparations in combination is simply more effective. On the one hand, the herbal components of **MICRO Stop** support digestion and destroy pathogens, on the other – **4-ACIDS** lowers the pH value and creates an environment in which natural flora feels comfortable. The combination is recommended for everyday prevention (giving 2-3 times a week to birds throughout the year) or, at larger doses, as an effective measure to control diarrhoea. You will find a detailed description of the products on p. 6-7.

#### IMPORTANT!

Regular use reduces incidence of salmonellosis and coccidiosis.



## IMMUNOSTIMULATION

### HOW DOES THE IMMUNE SYSTEM WORK?

The immune system is a set of organs, cells and biochemical processes which can defend an organism against harmful and foreign agents. Such foreign agents (antigens) may include bacteria, viruses, protozoan cells, fungi, but also allergens (e.g. pollen), chemical substances or a foreign body (e.g. a grain of sand in an eye). The immune system's organs (thymus, spleen) as well as the lymph nodes produce and activate special cells which are able to recognise and destroy antigens. These are, for example, lymphocytes, macrophages and granulocytes. Some of the cells additionally produce special substances which mark, hold or destroy enemy elements. The most important of these substances are immunoglobulins (antibodies) and interferon.



The immune system has a wonderful ability to learn. If it defeats an antigen (e.g. a pox virus) but once, there are antibodies left after the battle. Thanks to their presence the immune system will defeat the virus more easily next time it attacks the organism. This is the mechanism on which preventive vaccinations are based, which are nothing other than a “controlled learning” of the immune system.

### PRACTICE MAKES PERFECT

It has been proved that the more the immune system “practises”, the more efficient it is. If it is forced to act and it is not “idle”, its ability and effectiveness increase. However, to practise, it has to be in contact with antigens. A constant presence of a limited pool of bacteria and viruses is a kind of “training ground” for the system. This is the reason why too frequent use of antibiotics reduces immunity. When pathogens are killed by chemical agents, there is nothing the immune system cells can “practise” on. Poorly “trained”, they will not consequently be able to act effectively when it is necessary.



### WHAT IS IMMUNOSTIMULATION?

This term denotes deliberately taken measures aimed at stimulating the functioning of the immune system. Effective immunostimulants include, for example, probiotics. These are foreign cells, used to teach the immune system to distinguish “friend” from “foe”. A similar role is played by yeasts or  $\beta$ -glucans, isolated from their cell walls. Herbs are another group of substances which stimulate the immune system. Compounds contained in them are able to activate the organs which produce lymphocytes and macrophages. They also stimulate the immune system's cells to secrete defensive substances, for example interferon.



## “PURIFICATION BEFORE THE SEASON” PROGRAMME

### CARROT THERAPY

Every pigeon breeder must have heard about “carrot therapy”. It is applied before a breeding season. Some breeders give the birds carrots or their mixture with other vegetables (such as beetroot, parsley, celery, cabbage) as a form of controlled fasting (with no grain), others as a supplement to the bird’s feed. When asked why they apply such a therapy, they usually say that it is to reduce the fatty tissue, to identify weak birds, to remove toxins and to deworm the flock.

We at HapLabs think that carrot treatment in combination with controlled fasting is harmful to birds. It creates considerable stress to the organism, which is the last thing a breeder should give to his birds. It is better to prevent too much growth of fatty tissue during the rest period than to starve them later. Selection of weak birds can be done in a different way, for example by giving up treatment in winter. This will identify pigeons of poorer immunity..

However, carrot therapy has also some advantages. The addition of vegetables to grain provides birds with vitamins and reduces the amount of toxins in their organism.

Proper detoxicating therapy removes residues of antibiotics from tissues, rejuvenates pigeons and improves their health status. That is why we have developed a special programme which will help breeders to properly prepare birds for the season.

### HapLabs HERBAL CLEANSING THERAPY

Our programme is based on four herbal products, described on pages 15-18. We recommend that the complete, four-stage therapy should be applied at least once a year. It lasts about a month. If you do not have so much free time, steps 2 and 3 can be connected by giving **HEPATIC** and **NEFRIC** in the same water. Always have a 2-day break before consecutive stages and give the pigeons clean water.

#### STEP 1: GASTRIC

##### Cleansing the digestive tract

**GASTRIC** removes deposits from the intestinal walls and stabilises intestine function. It binds toxins, has a protective action and destroys pathogens.



Therapy duration: 5-7 days. Method of administration: with feed or as a tea

#### STEP 2: HEPATIC

##### Regeneration and improvement of liver function

**HEPATIC** strengthens liver cells and stimulates the creation of new ones. This boosts the organ’s effectiveness, improves the overall metabolism of the pigeon and improves the liver’s ability to remove toxins.



Therapy duration: 5-7 days.  
Method of administration: with feed or water

#### STEP 3: NEFRIC

##### Toxin removal from blood

**NEFRIC** stimulates kidney action, which increases blood filtration and toxin removal. Additionally, it stabilises the acid-base balance in the body and has a disinfecting effect on the urinary tract.



Therapy duration: 5-7 days.  
Method of administration: with feed or water

#### STEP 4: INHALIC

##### Cleansing the respiratory system

**INHALIC** removes contaminations from the respiratory tract. It stimulates cilia and increases mucus secretion by the lining cells.

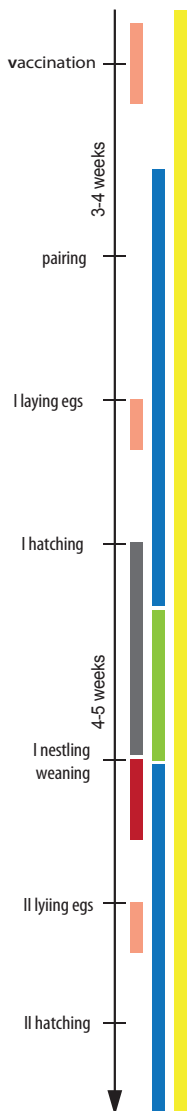


Therapy duration: 5-7 days. Method of administration: with water or inhalation

## PROGRAMME FOR BREEDING PAIRS



veterinary  
examination possible  
treatment deworming  
cleansing (p.22)



After an uninteresting autumn and even more boring winter, the next season comes at last! Every year, breeders look forward to their pigeons starting to join in pairs.

Full of emotions, they plan this year's partners, smiling to themselves at the thought that maybe one of the pairs will produce excellent offspring? Wouldn't it be great!... It is obvious that every breeder dreams about good breeding and healthy nestlings. However, not every one of them remembers that in order to be successful in this business, you have to start work much earlier than at the time of mating. To everyone eager to succeed, we offer the programme for breeding pairs and nestlings (next page). It demands a lot of effort, but it is sure to pay off.

### EVERYTHING STARTS 6-7 WEEKS BEFORE PIGEONS' JOINING IN PAIRS

1. The programme is based on the assumption that pigeons start breeding in good form, strong, and with a high immunity level. A breeder should have their pigeons examined by a vet and apply an appropriate therapy with a properly selected drug, if it proves necessary. Remember !!! **Do not perform any "blind" treatment or do not do it "just in case"**. This will lower the flock's immunity, and the parent birds' immunity is of key importance for healthy breeding of the young. But we'll talk about this more in a while.
2. Another step is a herbal cleansing therapy (p. 22) and vaccination, which should be preferably carried out 3-4 weeks before pairing. Thanks to this operation, females' blood at the time of egg-laying contains a lot of antibodies which will get to the eggs and will then protect the nestlings. To boost the effect, give **VITAL Immuno** to pigeons for 10 days (p. 18).
3. About 1-2 weeks before pairing, start adding **DNA Promotor + 7-OILS** to grain. It supports the parents' hormonal balance, improves the eggs' and nestlings' quality and increases the value of crop milk (details – p. 9).
4. Success! Pairs are together and eggs already in bowls... Many breeders feel the temptation to apply some sort of therapy during the hatching period... Don't do it! (unless a vet recommends it...). Repeat the **VITAL Immuno** treatment instead (5 days). Thanks to this, nestlings will get an increased dose of immune cells with crop milk.
5. After hatching, the young should remain with their parents for 4-5 weeks. On the next page you will read about what happens in this time.
6. After the nestlings are weaned, resume giving **DNA Promotor + 7-OILS** to pigeon pairs. Always apply liver treatment with **HEPATIC** between breedings, and give **VITAL Immuno** to parents during egg hatching.
7. Acidify water regularly and give birds **MICRO Stop** during the breeding period. Do not forget about probiotics. It is necessary to prevent birds from falling ill.

- |  |   |
|--|---|
| <span style="color: orange;">■</span> VITAL Immuno + 7-OILS; 5-10 days       | <span style="color: green;">■</span> VITAL Junior + 7-OILS; 3x a week                       |
| <span style="color: red;">■</span> HEPATIC; 7-14 days                        | <span style="color: grey;">■</span> FUNGI Stop + INHALIC; once a week                       |
| <span style="color: blue;">■</span> DNA Promotor + 7-OILS; every another day | <span style="color: yellow;">■</span> MICRO Stop + 4-ACIDS + bacteria settling; 2-3x a week |

## Healthy rearing of nestlings

A new generation of pigeons fill the breeder with the hope that a flying champion or an excellent breed representative will appear in the loft. However, it is not easy to rear nestlings, and with each serious problem the outlook for the future deteriorates. Unfortunately, a weak or sickly nestling does not have a great chance to become a champion...

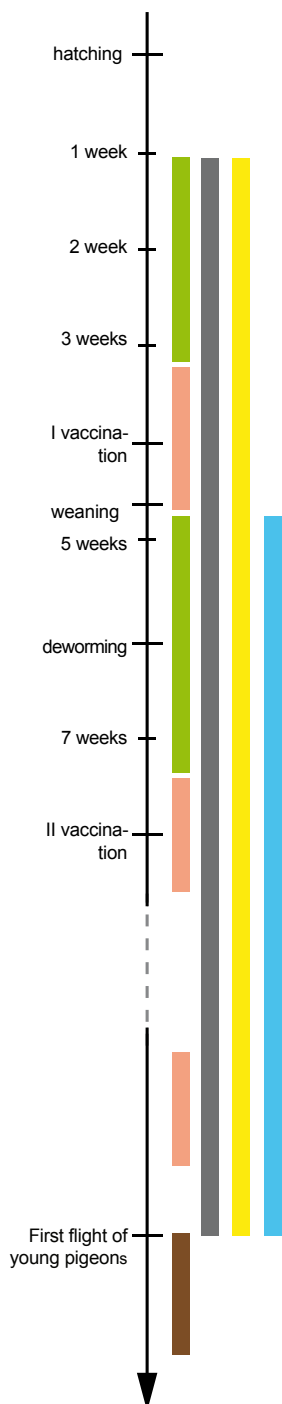
So what to do to minimise diseases in nestlings? According to experienced breeders, consistent stimulation of the flock's immunity and avoiding chemical therapies in nestlings is the key to success. We at HapLabs are of the same opinion.



### EVERYTHING STARTS WITH PARENTS

- Initially, nestlings' health depends mainly on the physical condition of the parents. It takes some time before a pigeon's immune system becomes fully active. After hatching it is protected by an immunity passed on by its parents in the egg and in crop milk. This is the reason why a natural high level of immunity of breeding pairs directly translates into the health of nestlings.
- Pigeons grow very fast. Before they are weaned, a breeder should start giving them **VITAL Junior**, which contains valuable proteins, vitamins, herbs and  $\beta$ -glucans to stimulate their immunity (p. 12). With water, nestlings should be given **MICRO Stop + 4-ACIDS** as well as probiotics (due to immature digestive system). As an agent protecting the upper respiratory tract, use **INHALIC + FUNGI Stop**. Obviously, the supplements will also be consumed by the parents, but they will only benefit from it.
- As the effect of the parents' antibodies will soon stop, it is necessary to perform vaccinations, which will stimulate the nestlings' immunity and will protect them against diseases. Two vaccination sessions should be performed. First before weaning, about 25 days after hatching, the second – 4 weeks after the first session (fixing the vaccination, which lowers the risk of disease in the nestlings). Give **VITAL Immuno** to the birds each time at vaccination. Remember that vaccination will be successful only when the birds' immune system works properly. During the first weeks, many breeders apply the therapy against trichomonadosis. However, giving drugs to very young pigeons results in destabilising their immune system and has long-term adverse effects.
- After weaning, continue giving the birds **VITAL Junior**, **MICRO Stop + 4-ACIDS** and **INHALIC + FUNGI Stop** according to the guidelines in the diagram. Also, give them **GASTRIC** and **HEPATIC** with feed. Perform deworming after weaning and do not forget to repeat the vaccination.
- Repeat the immunity stimulating therapy before flying by giving birds **VITAL Immuno** for 10 days. Avoid treatment with drugs and look after the birds' digestive and respiratory systems. You will find the programme for young pigeons' flying on p. 35.

- **VITAL Junior** + 7 OILS; 3x a week
- **MICRO Stop** + 4-ACIDS + bacteria settling; 2-3x a week
- **VITAL Immuno** + 7-OILS; 10 days
- **FUNGI Stop** + **INHALIC**; once a week
- Flight programme, p. 35
- **GASTRIC** + **HEPATIC**; once a week



We have prepared something special for every passionate breeder of racing pigeons – a unique line of preparations for the flights period. When selecting the components we had in mind the birds' needs, but also practical considerations and the breeders' convenience. Below are the basic principles of the HapLabs' "Flights" line.



1. The differences in the biochemistry of the effort required from a long-distance pigeon and a sprinter are enormous. Hence the needs of a pigeon before a 350 km flight are different than those of one before a 600 km flight. Also, the fatigue and the organism's condition after such flights largely depend on the distance. This is the reason why we have developed preparations for pigeons flying at distances up to 350 km and for those flying longer distances. We offer breeders the products which contain exactly what birds need when flying at a specific distance. The **SPRINT** series includes mixes to be given before and after short-distance flights, while the **MULTI** series – those for medium and long distances and for the marathon. Moreover, each of the series includes 2 products – one to be given before the flight (**MULTI Forma**, **SPRINT Forma**) and another one – after a flight (**MULTI Regener**, **SPRINT Regener**).

2. To achieve good flying results and to provide birds with all the necessary nutrients at proper doses, breeders use many different products. Some contain amino acids, others such substances as L-carnitine, L-glutamine, other electrolytes, carbohydrates or vitamins. As a result, supplementation schemes during a flying week are very complex. We at HapLabs have decided to make things easier for you and so our products have been designed in a way which makes the programme for flights as simple as possible. We carefully analysed the needs of racing pigeons, we established what components are effective at what doses and subsequently we added them to our products. It is enough to take one look at the label. There are no other products with such a broad range of components on the market.

3. We at HapLabs believe strongly in natural products, so they just had to be included among the components of the "flying line" products. We offer the breeders **REVITAL**. It is a high quality mixture of extracts from herbs with a strengthening and regenerating action (gin-seng, St. John's Wort, ginkgo and others), which should be given to pigeons for 3 days after they return from a flight. This treatment helps them better cope with the burdens of the season and regain their good condition for their next flight.

**REVITAL** is not the only herbal product in our flying line. Other products also contain substances of plant origin. Mixes to be given after flights (**Regener**) contain herbs which enhance liver action, and those designed for the time before flights (**Forma**) – the addition of pine oil and rosemary. Moreover, breeders are advised to apply **INHALIC**, **HEPATIC**, **MICRO Stop**, **4-ACIDS** and **7-OILS**, according to the programmes described on p. 33-35.



# SPRINT Forma

Perfect form for 350 km flights

## » PROPERTIES AND ACTION

**SPRINT Forma** prepares a pigeon's organism for short-distance flights (up to 350 km) and comprises a complete range of components to supplement their basic feed. When flying over short distances, a bird takes its energy mainly from carbohydrates with chemical transformations running mainly in the oxygen profile. **SPRINT Forma** supplies energy-containing components (low-index carbohydrates), and also substances stimulating the metabolism and increasing its effectiveness, such as taurine, L-carnitine, caffeine and glutamine. To prevent negative effects of intensive effort, **SPRINT Forma** also contains muscle-protecting substances (HMB, aspartates), electrolytes, as well as such components which protect the liver (choline, inositol), vitamins (E, C, B<sub>12</sub>) and rosemary, which stabilises blood pressure, but at the same time has a motivating effect on the bird.

## » INDICATIONS AND DOSAGE

**SPRINT Forma** should be given before a short flight to:

- vide pigeons with substances necessary during a flight,
- make pigeons' flight as fast as possible,
- stimulate and maximise pigeons' flying capabilities.

**SPRINT Forma** should be given at the dose of 5-10 g / 1 kg of feed or 1 L of water for 1-2 days. The period when the preparation should be given to the birds should depend on their condition and their preparation for the flight. Before an easy flight, it is enough to give it to the birds once, before a difficult one it can be given for 2 days before such a flight. Details – in the programme for short-distance flights, p. 33.

The 350 limit is only conventional. If the condition of your pigeons is good, you can give the **SPRINT Forma** for distances of up to 450 km. This is because the oxygen threshold in well-prepared pigeons occurs later

### IMPORTANT!

**SPRINT Forma** is generally administered with feed (**HEPATIC** or **7-OILS** as carriers). However, on the basketing day, give pigeons **SPRINT Forma** in water with the addition of **INHALIC**. This is important!



## » PRODUCT COMPOSITION As many as 24 components!

1 kg of **SPRINT Forma** contains: protein isolate + essential amino acids 380 g; HMB 100 g; electrolytes 150 g; fructose + sucrose 95 g; L-carnitine, L-glutamine total - 85 g; caffeine, taurine, choline chloride, inositol, iron chloride 31 g; Mg + Zn aspartate 3,7 g; Vitamin E 1 g; Vitamin C 5 g; Vitamin B<sub>12</sub> 2 mg; citric acid 15 g; rosemary oil 5 g.

## » PACKAGING AND YIELD

150 g ▶ 1 package = 375 pigeons ▶ 4-5 flights for 50 pigeons

250 g ▶ 1 package = 625 pigeons ▶ 6-7 flights for 50 pigeons



**Stamina for medium- and long-distance flights and for marathons**

## MULTI Forma

### »» PROPERTIES AND ACTION

**MULTI Forma** helps to prepare pigeons for flights further than 350 km. The group of flights spans the distances from 300-400km to as much as 1200 km. But they all have one thing in common: during such a flight the pigeon's organism has to use its deepest reserves of energy. After covering a certain distance, the supplies of carbohydrates have been exhausted, there is an oxygen deficit, the general metabolism profile changes (a pigeon draws its energy from proteins and fat transformations). **MULTI Forma** contains those energy components that are used after carbohydrates have been exhausted (these are amino acids and medium-chain triglycerides), as well as substances which protect the muscles and the circulatory system (HMB, L-carnitine, iron, vitamin B<sub>12</sub>, aspartate). Butafosfan is another very important component; it is a source of active phosphorus and it stimulates the synthesis of ATP and glycogen. Thanks to it, a pigeon has the energy for longer flights and it takes longer to get tired. **MULTI Forma** also contains pine oil, which has a stimulating effect on the liver and increases infiltration of lipophilic substances to the organism. This helps a pigeon to use energy from fat. A pool of electrolytes and micronutrients strengthens the pigeon's organism.

### DO YOU KNOW ?

A pigeon's needs before a spring flight and a long-distance one are completely different! These differences were taken into account while developing the **SPRINT** and **MULTI** mixes.

### »» INDICATIONS AND DOSAGE

**MULTI Forma** should be given with feed or with water as a source of energy before a flight of over 350 km, to stimulate fat and protein metabolism in the liver, as an agent protecting muscles and the circulatory system and to increase metabolic reserves and pigeons' stamina.

**MULTI Forma** should be used at the dose of 5-10 g / 1 kg of feed or 1 L of water for 1-3 days. The duration of the period when the preparation is given should depend on the birds' condition and flight difficulty. It can be given for as many as 3-4 days before the most difficult flights, with the dose gradually increased. Details – programme for medium – and long-distance flights and marathon, p. 34.

#### IMPORTANT!

**MULTI Forma** should be given with feed (**7-OILS + HEPATIC** as a carrier). However, if the birds are not fed before basketing, remember to give them the preparation with water. The pigeons should get **MULTI Forma** on the day of basketing.



### »» PRODUCT COMPOSITION

As many as 33 components !

1 kg of **MULTI Forma** contains: protein isolate + essential amino acids 340 g; HMB 100 g; electrolytes 240 g; medium-chain triglycerides 20 g; butafosfan, L-carnitine, L-glutamine, L-lysine - total 165 g; choline chloride, betaine, lecithin, inositol, iron chloride - total 67 g; Mg + Zn aspartate 5,9 g; Vitamin E 1 g; Vitamin C 5 g; Vitamin B<sub>12</sub> mg; citric acid 15 g; pine oil 10 g; micronutrients 6 g.

### »» PACKAGING AND YIELD

150 g ▶ 1 package = 375 pigeons ▶ 2-3 flights for 50 pigeons

250 g ▶ 1 package = 625 pigeons ▶ 4-5 flights for 50 pigeons





## » INDICATIONS AND DOSAGE

**SPRINT Regener** should be given to pigeons after a short-distance flight in order to:

- replenish any deficit of nutrients,
- restore internal balance,
- regenerate muscles,
- activate the detoxifying mechanism of the liver.

**IMPORTANT !** When using **SPRINT Regener** after flights, do not give birds honey, sugar or electrolytes. The preparation contains them in the optimum amount and giving more may bring adverse effects.

	Component A	Component B
1 administration - water	20 g	50 g
2 administration - feed	20 g	-

**SPRINT Regener** should be given to pigeons twice, observing the proportions shown in the table on the left. The first dose should be given with water (with the addition of **INHALIC**), immediately after the bird returns from its flight. The second dose (**Component A** alone) should be given on the next day with feed, with **REVITAL** as the carrier.

## » PRODUCT COMPOSITION

### Component A

Protein isolate + electrolytes + glucose - total 775 g; HMB, taurine, choline chloride, iron chloride - total 118 g; aspartate Mg+Zn 1,55 g; Vitamin B<sub>6</sub> 130 mg; Vitamin B<sub>12</sub> 1 mg; milk thistle, gol-denrod, couch grass - total 45 g; Values referred to 1 kg.

## » PRODUCT COMPOSITION

### Component B

Glucose; Maltodextrine; Electrolytes; Vitamin E 0,25 g; Vitamin C 2 g; Citric acid 3 g; Lavender oil 5 g. Values referred to 1 kg.

## » PACKAGING AND YIELD

- |   |         |   |                          |
|---|---------|---|--------------------------|
| A | ▶ 200 g | } | 3 flights for 50 pigeons |
| B | ▶ 250 g |   |                          |

## DOU YOU KNOW?

No supplements need to be given to pigeons after flights which last shorter than 1 hour, except on hot days. Then, even after the smallest effort it is worth giving birds water with **SPRINT Regener** and **INHALIC**.



# MULTI Regener **A** + **B**

Regeneration after  
long-distance flights

## » PROPERTIES AND ACTION

**MULTI Regener** is a preparation for pigeons which return from a flight of further than 350 km. The formulation is based on a precise analysis of the birds' needs after such a long effort. **MULTI Regener** is the richest product of its kind on the market. It quickly replenishes the deficit of nutrients, which is huge after a long-distance flight, at the same time providing a bird with many substances which restore the metabolic balance in its organism. **MULTI Regener** contains easily absorbable carbohydrates, electrolytes, amino acids, vitamins, micronutrients and selected herbs (milk thistle, couch grass, goldenrod and yarrow), which stimulate the functioning of the liver and kidneys and which have a detoxifying effect. **MULTI Regener** also contains a pool of substances which protect the liver and which neutralise acidosis - HMB, L-glutamine, Mg and Zn aspartate and metabolism stimulating substances (taurine, inositol, le-cithin, choline). All this makes **MULTI Regener** a complete mixture to be given after a flight. Its use helps a breeder to reduce the amount of preparations in the vet kit and ensures that pigeons have everything that is necessary.

## » WHY DOES MULTI REGENER HAVE TWO COMPONENTS: A AND B ?

Examinations of pigeons' physiology have shown that the birds' demand for nutrients (after a flight) changes with time. This concerns mainly carbohydrates and electrolytes. Soon after returning from a flight, a pigeon should get a 6-7% solution of simple sugars and a considerable amount of electrolytes. However, a few hours later, the demand drops by half and disappears altogether after about 24 hours. On the other hand, other substances, such as amino acids, vitamins, metabolism regulators and herbs should be given to pigeons at a constant dose for a few days after a flight (and for 3-4 days after difficult flights).

It is this variability of needs that has made us offer **MULTI Regener** as a so called “two-pack”. It is the only way of giving a variable dose of some components while keeping others at a constant level.



**MULTI Regener** is the only commercially available preparation which so precisely satisfies the needs of a pigeon which returns from a long-distance flight. Owing to its two-phase formulation, it is possible to regulate the concentration of glucose and electrolytes in consecutive doses.

**The preparation satisfies 100% the needs of pigeons after a long-distance flight.**

## » INDICATIONS AND DOSAGE

**MULTI Regener** should be given 3-5 times after a flight, maintaining the proportion presented in the table below. The first and second dose should be given to pigeons with water (the first dose immediately after the pigeons have returned from the flight). Consecutive doses (**Component A** alone) should be given with feed, with **REVITAL** as the carrier. The length of period when the preparation is given depends on the pigeon's condition after the flight. Only those pigeons which were badly affected by the flight should be given more than 3 doses.

	Component A	Component B
1 administration-water	20 g	60 g
2 administration-water	20 g	30 g
3 administration-feed	20 g	-
4-5 administration-feed	20 g	-

**IMPORTANT!** Individual doses should be given at the time of giving food and water in the loft.

## » PRODUCT COMPOSITION

### Component A

Protein isolate + essential amino acids + glucose - total 670 g; HMB 75 g, butafosfan, L-glutamine, taurine, choline chloride, betain, lecithin, inositol, iron chloride - total 167 g; Mg+Zn aspartate 1,95 g; Vitamin B<sub>6</sub> 130 mg; Vitamin B<sub>12</sub> 1 mg; milk thistle, goldenrod, couch grass - total 45 g, micronutrients 3 g. Values referred to 1 kg.

## » PACKAGING AND YIELD

- A** ▶ 210 g
  - B** ▶ 310 g
- } 2 flights for 50 pigeons

## » PRODUCT COMPOSITION

### Component B

Glucose; Maltodextrin; Electrolytes; Vitamin E 0,25 g; Vitamin C 2 g; Citric acid 5 g; Yarro extract 5 g. values referred to 1 kg.

## DO YOU KNOW?

The liver is of key importance in a pigeon's flight. It is here that most transformations take place which supply the energy for flying. After a flight this organ should be regenerated and relieved of some burden. This is the reason why so many flying line preparations contain liver stimulating substances.



# REVITAL

Effective regeneration between flights

## » PROPERTIES AND ACTION

**REVITAL** is a regenerating preparation to be given to pigeons between flights. The time to regenerate their full form before their next flight is very short. Sometimes it is only a few days. Therefore, it is very important that the time should be used in the best way possible and that pigeons should be given substances which relieve fatigue and restore fitness. **REVITAL** contains herbal extracts and oils which have been used for centuries in convalescence and as agents which restore balance. It also contains rutin and vitamin C, which enhances the bird's regeneration capacity and boost its immunity, which may have been decreased by the bird's recent effort. **REVITAL** reduces the time of rest and increases the organism's functioning. It helps a breeder to remove fatigue in his pigeons and to achieve good results in the next flight, even if the previous flight was difficult for the pigeons. **REVITAL** is also perfect help for pigeons after illness and a perfect way of restoring their health.

## » INDICATIONS AND DOSAGE

**REVITAL** should be given with feed between consecutive flights in order to rebuild form. It can be used in other groups of breeding pigeons. Your birds in the breeding period and nestlings will surely benefit from it. **REVITAL** can also be given after illnesses. Your birds will regain full strength quicker and the liver protecting herbs will relieve the negative effects of drugs.

**REVITAL** should be given at the dose of 2,5 mL/1 kg of feed.

- Flights – for 3-4 days between flights (first 1-2 doses – double size)
- Convalescence following an illness – for 5-7 days
- Strengthening the organism at any time – for 5-7 days

**IMPORTANT!**

**REVITAL** can be given together with other preparations. Its composition will not disturb the effect of vitamin or mineral mixes.



## » PRODUCT COMPOSITION

Substances of plant origin from 10 herbs, inter alia from aloes, ginkgo, gin-seng, lemon balm, St. John's Wort, dandelion, milk thistle; vitamin C; rutin. **REVITAL** does not contain any carriers – the product is composed 100% of active substances!

## » PACKAGING AND YIELD

125 mL ▶ 1 bottle = 1000 pigeons ▶ 4 flights for 50 pigeons

250 mL ▶ 1 bottle = 2000 pigeons ▶ 8 flights for 50 pigeons




The programme for flights of up to 350 km is based on the **SPRINT** series mixes, which are suited to satisfy the needs of pigeons flying at short distances. The mixes contain a full set of energy-providing substances and electrolytes. Moreover, preparations which enhance the function of the respiratory tract are recommended before and after the flight to ensure free oxygen uptake. The flight programme also provides for constant liver stimulation and the mix contains substances protecting the digestive system. An example administration scheme is shown in the table.

**BEFORE A FLIGHT - SPRINT Forma** should be given in feed with the addition of **HEPATIC**. You can also add **7-OILS**, though this is not a necessity. Give the mix to the birds 1-2 days before the flight, depending on the pigeons' form and the flight difficulty. It is of key importance that **SPRINT Forma** should be given to birds on the day of basketing. It should be given with water with an addition of **INHALIC**; make sure that the pigeons have drunk it. For short-distance flights it is enough if the preparation is given once, on the day of basketing.

**AFTER THE FLIGHT** - After returning from the flight, the pigeons should be given water with **SPRINT Regener (A+B)** and **INHALIC**. Remember that the mix contains all the necessary components. Do not add to it any electrolytes, glucose, honey, etc. On the next day after the flight, the pigeons should be given **SPRINT Regener** (only component A) with the feed. During the post-flight period, the pigeons should be given **REVITAL** with grain.

**WHAT ELSE?** – It is recommended that the pigeons should be given probiotic and a multivitamin mix 1-2 times a week. Currently, we have no such products on offer, so give the birds those that you have given them so far.

**IMPORTANT!** The pigeons which are in good form can be given **SPRINT** mixes before longer-distance flights too 350km (up to 450 km). Their metabolism is more efficient, they accumulate more energy with glycogen and the oxygen threshold occurs later.

DAY OF THE WEEK		FEED	WATER
2 days before flight	morning	HEPATIC	4-ACIDS + MICRO Stop
	evening	HEPATIC	4-ACIDS + MICRO Stop
1 day before flight	morning	1/2 dose SPRINT Forma + HEPATIC (+ 7-OILS)	INHALIC
	evening	1/2 dose SPRINT Forma + HEPATIC (+ 7-OILS)	INHALIC
basketing	before basketing		SPRINT Forma + INHALIC
			
return	after return		SPRINT Regener A + B + INHALIC
	evening	2x dose REVITAL	4-ACIDS + MICRO Stop
1 day after flight	morning	SPRINT Regener A + REVITAL	4-ACIDS + MICRO Stop
	evening	REVITAL	4-ACIDS + MICRO Stop
2 days after flight	morning	REVITAL	<b>Remember that even the best supplements will not do much if pigeons are ill-prepared for their flight. Run training sessions before the season and look after the birds' health.</b>
	evening	REVITAL	
3 days after flight	morning	HEPATIC	
	evening	HEPATIC	


Exact doses of each product are shown on a page devoted to it.  
Products in brackets are optional.

The programme for long-distance flights is based on the **MULTI** series mixes. Moreover, preparations which enhance the function of the respiratory tract are recommended before and after the flight to ensure free oxygen uptake. The flight programme also provides for constant liver stimulation and the mix contains substances protecting the digestive system. An example administration scheme is shown in the table.

**BEFORE THE FLIGHT** - Add **MULTI Forma** with **7-OILS** and **HEPATIC** to the feed. The duration of such supplementation depends on the flight difficulty and the form of birds. 1-2 days are suggested before an easy flight, 3-4 – before a more difficult one. The dose should grow gradually. On the day of basketing, **MULTI Forma** should be given with water and **INHALIC**.

**AFTER THE FLIGHT** - With the first water, give the pigeons **MULTI Regener (A+B)** with **INHALIC**. Remember that the mix contains all the necessary components. Do not add to it any electrolytes, glucose, honey, etc. On the next days, still give them **MULTI Regener**, gradually reducing the amount of component **B**. Depending on the pigeon's condition, give it **MULTI Regener** 3 to 5 times. During the post-flight period, a bird should also be given **REVITAL** with grain.

**WHAT ELSE?** - It is recommended that the pigeons should be given probiotic and a multivitamin mix 1-2 times a week. Currently, we have no such products on offer, so give the birds those that you have given them so far.

DAY OF THE WEEK		FEED	WATER
3 days before flight	morning	½ dose MULTI Forma + HEPATIC (+ 7-OILS)	
	evening		
2 days before flight	morning		4-ACIDS + MICRO Stop
	evening	½ dose MULTI Forma + HEPATIC (+ 7-OILS)	4-ACIDS + MICRO Stop
1 day before flight	morning	MULTI Forma + HEPATIC (+ 7-OILS)	INHALIC
	evening	MULTI Forma + HEPATIC (+ 7-OILS)	INHALIC
basketing	before basketing		MULTI Forma + INHALIC
			
return	after flight		MULTI Regener A + B + INHALIC
	evening	2x dose REVITAL	4-ACIDS + MICRO Stop
1 day after flight	morning	2x dose REVITAL	MULTI Regener A + ½ B
	evening	MULTI Regener A + REVITAL	4-ACIDS + MICRO Stop
2 days after flight	morning	REVITAL (+ MULTI Regener A)	<b>Remember that even the best supplements will not do much if pigeons are ill-prepared for their flight. Run training sessions before the season and look after the birds' health.</b>
	evening	REVITAL (+ MULTI Regener A)	
3 days after flight	morning	HEPATIC	
	evening	HEPATIC	
4 days after flight	morning	HEPATIC	4-ACIDS + MICRO Stop
	evening	HEPATIC	4-ACIDS + MICRO Stop


Exact doses of each product are shown on a page devoted to it.  
Products in brackets are optional.

The HapLabs flight programme for young pigeons is based on the same principles as those described on the previous pages, designed for adult pigeons. Since young birds usually fly only short distances, the table below shows preparations in the **SPRINT** series. However, **MULTI Forma** and **MULTI Regener** can be given to young pigeons which fly over longer distances.

**BEFORE THE FLIGHT** - Give the birds the **Forma** mix with **HEPATIC**. You can also mix it with **7-OILS**. The duration of the period when it is administered to the birds is left for the breeder's decision (some breeders are against giving too much supplements to young birds). However, it is recommended that the **Forma** should be given with water on the day of basketing (**INHALIC** must be added).

**AFTER THE FLIGHT** - After the flight, young pigeons are treated in the same manner as in the other two programmes. Initially: water + **Regener** + **INHALIC**. Subsequently **REVITAL** with feed and continued administration of **Regener** depending on the birds' condition.

**BETWEEN FLIGHTS** - Due to the high sensitivity of young pigeons, the flight programme for them should be extended by regular administration of preparations with a protective action. To protect the respiratory tract, pigeons should be given **INHALIC** + **FUNGI Stop** with water. The Digestive system should be protected with **MICRO Stop** + **4-ACIDS** and **GASTRIC** + **HEPATIC**. Do not forget to give pigeons preparations which help to settle beneficial bacteria! The diets of young birds should not be lacking in **VITAL Junior**, which will stimulate their immunity owing to the presence of  $\beta$ -glucans.

DAY OF WEEK		FEED	WATER
2 days before flight	morning	VITAL Junior + HEPATIC + 7-OILS	4-ACIDS + MICRO Stop
	evening	VITAL Junior + HEPATIC + 7-OILS	4-ACIDS + MICRO Stop
1 day before flight	morning	HEPATIC	INHALIC + FUNGI Stop
	evening	SPRINT Forma + HEPATIC (+ 7-OILS)	INHALIC + FUNGI Stop
basketing	before basketing		SPRINT Forma + INHALIC
			
return	after flight		SPRINT Regener A + B + INHALIC
	evening	2x dose REVITAL	4-ACIDS + MICRO Stop
1 day after flight	morning	SPRINT Regener A + REVITAL	4-ACIDS + MICRO Stop
	evening	REVITAL	4-ACIDS + MICRO Stop
2 days after flight	morning	VITAL Junior + REVITAL + 7-OILS	
	evening	ITAL Junior + REVITAL + 7-OILS	
3 days after flight	morning	GASTRIC + HEPATIC	4-ACIDS + MICRO Stop
	evening	GASTRIC + HEPATIC	4-ACIDS + MICRO Stop

Exact doses of each product are shown on a page devoted to it.  
Products in brackets are optional.

## WHERE CAN YOU BUY HapLabs PRODUCTS?

### RETAIL SALE

Breeders who are interested in our offer, are invited to contact by phone the HapLabs Headquarters or any of our retail outlets in Poland. Our products are available from good shops which market preparations for pigeons, from veterinary surgeons and from Internet shops. The list of distributors is being constantly expanded, so we do hope that despite our short presence on the market, our offer will soon be available in every region of Europe.

You can view the constantly updated list of sites where HapLabs products can be bought on our website at [www.haplabs.com](http://www.haplabs.com) in the **SALE** section. The map of Poland shows the places with the retail outlets, and the table below provides their addresses and contact details. Information about the sites appears after you click the balloon which corresponds to the location of the distributor on the map. A list of Internet shops is placed under the map, in the first line of the table with addresses.

#### IMPORTANT!

We do not conduct direct retail sale of our products. Everyone interested should contact one of our distributors.



If you do not know where to buy our products or you do not have Internet access to check the retailers list, call us at +48 600 160 255 or +48 692 260 100. A HapLabs representative will be pleased to provide you with the necessary information.

### FOR DISTRIBUTORS

Everyone interested in the distribution of HapLabs products is welcome!

Please contact us by phone at **+48 600 160 255** or by e-mail at **biuro@haplabs.com**.

We wish all breeders good shopping and satisfaction with our products.

The HapLabs team



[www.haplabs.com](http://www.haplabs.com)



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