

DO YOU TRUST **NATURE?**

We trust Nature!

Do you worry about coccidiosis, cryptosporidiosis, parasites, respiratory problems, or heat stress? Or are you looking for solutions to improve digestion, enhance liver metabolism, calm stressed animals, or prevent diarrhea in young animals? Our Herb-All™ products are the natural way to prevent diseases. Life Circle Nutrition has developed new concepts for healthier, more sustainable animal production. Thanks to our vast technical and market experience in all animal species, we have established a portfolio of products with unique mixtures of pure herbs. Several trials under different conditions in ruminants, monogastrics, minor species, pets, and in aquaculture have shown the positive effects of Herb-All™ products!

The whole instead of a part!

All Herb-All™ products contain pure herbs and no extracts. Herbs have many active ingredients and secondary plant substances that are not extractable. We use the whole power of these natural ingredients to bring back the missing nutritional elements into animal feed. The result is a maximum synergistic effect of all active ingredients and secondary plant substances to make animals stronger and healthier.

Products made in Switzerland!

Life Circle Nutrition is the only supplier offering herbal mixtures manufactured in Switzerland using a time-tested and precise science of combining herbs under GMP+ quality standards. Our goal is to supply you with consistent and reliable product quality and composition. Controlling a mixed product for its natural composition is not possible. That is why we import freshly collected, sun-dried herbs from qualified supply partners and check their quality both at origin and before production. We analyze every single raw material by high performance liquid chromatography (HPLC) to ensure it complies with our quality standards. This practice gives you the confidence to expect consistent product performance.

We look forward to serving you with our herbal solutions.



Thomas Rüegge
President

Life Circle Nutrition AG



Life Circle Nutrition AG, Switzerland

Our home

In January 2021 we moved to our new office building with a modern infrastructure and a lot of space.

Sustainability is important to us. Our office building is made entirely of Swiss wood. This saved around 450 T of CO₂.



Our office building in Wangen, Switzerland



High-quality production

Swiss quality

In our own laboratory, we analyze every single batch of raw material by HPLC. If it complies with our high product specifications, we then produce our Herb-All™ line of products according to GMP+ guidelines.

Strict and precise quality control is critically important, because natural products can vary from batch to batch. Our control procedures guarantee 100% natural solutions with constant values.



HPLC analysis in our own laboratory



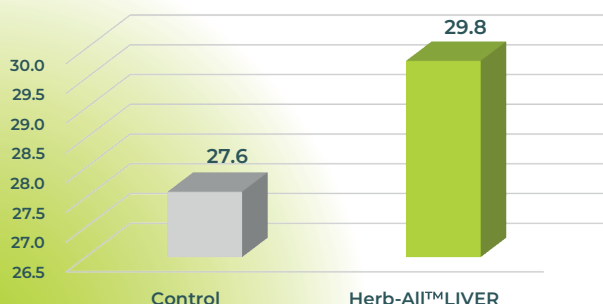


Herb-AII™
LIVER

Plant-based nutrition to support liver health and feed conversion

Herb-AII™LIVER improves conversion from feed into energy and appropriate glucose supply. It also supports the function of the liver, a key organ of the body. This pure herbal mixture can **prevent fatty liver syndrome (FLS)** and **improve protein metabolism**. It also improves the excretion of toxins and metabolites from the body. The active secondary plant compounds of Herb-AII™LIVER promote acylation reactions to facilitate conversion of lipids to phospholipids. Furthermore, they **help prevent hoof and claw issues in ruminants** and **monogastrics** and reduce problems linked to inflammation.

Mean milk yield during first 150 days (kg)



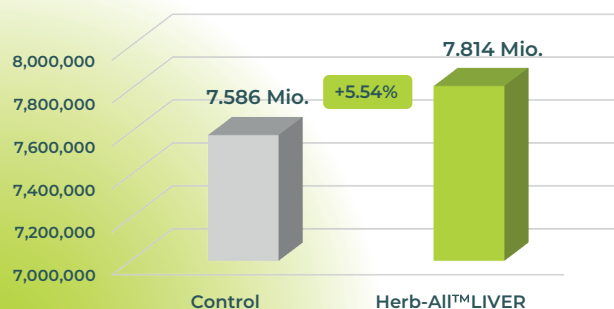
Herb-AII™LIVER increases milk production in dairy cows and improves liver enzymes

A trial with dairy cows showed an average milk performance of 29.8 kg in the trial group fed with Herb-AII™LIVER and 27.6 kg in the control group, respectively (first 150 days of lactation). This difference is highly significant (t-test for paired data: $p = 0.006$). The milk performance in kg energy corrected milk (ECM) during the entire trial period is presented in the graph. Physiological studies showed a significant impact of Herb-AII™LIVER on liver enzymes, proving the potential of the product to protect the liver.

Herb-AII™LIVER enhances egg production and helps to avoid fatty liver syndrome

We conducted a 12-week trial at a commercial chicken farm by feeding Herb-AII™LIVER with a dose of 300 g per ton of feed to more than 100,000 layers. The only difference in feed composition was the addition of Herb-AII™LIVER. As a result, the egg performance increased by 5.54%. Feed conversion decreased by 0.68% and mortality by 8.19%. Herb-AII™LIVER supports liver and fat metabolism to improve egg production significantly. That helps to keep the egg output and profitability high.

Egg production during 12 weeks



GENERAL INCLUSION RATES

Calves:	1 kg / ton of CMR (calf milk replacer)
Beef bulls and steers:	2 g / 100 kg body weight / day
Dairy cows:	10 g / head / day
Sheep, goats:	3 g / head / day
Poultry (broilers, layers, turkeys):	300 g / ton of feed
Pigs:	400 g / ton of feed
Horses:	10 g / head / day
Aquaculture:	up to 2 kg / ton of feed depending on species

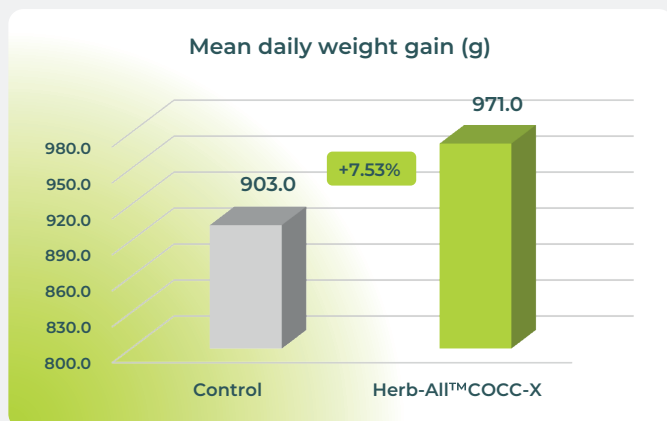
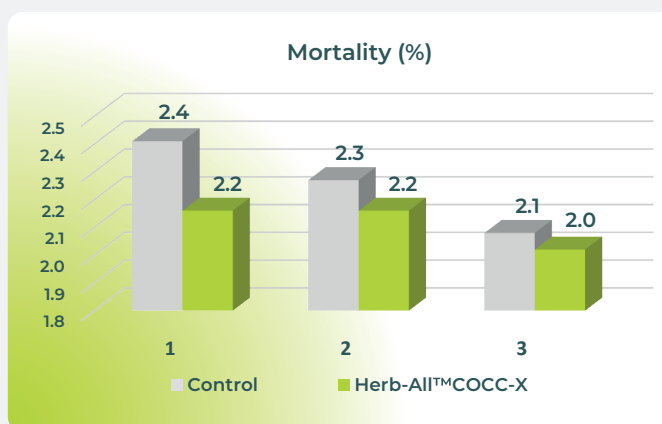


Plant-based nutrition to manage protozoa (coccidiosis, cryptosporidiosis)

Herb-All™COCC-X reinforces natural defense barriers against protozoan infections like coccidiosis, cryptosporidiosis or blackhead disease. **It improves gut microbial control and supports the management of protozoan invasion.** Moreover, the traditional rotation management falls away without any withdrawal restrictions. Herb-All™COCC-X is recommended in **broilers** and **turkeys** as part of an innovative production program. Herb-All™COCC-X lowers infection risk in **calves, piglets, rabbits, sheep, and goats**. It reduces pathogenic pressure and thereby enhances the growth of beneficial bacteria.

Herb-All™COCC-X replaces coccidiostats in broilers completely

Several trials showed that Herb-All™COCC-X can replace coccidiostats completely. The mortality in all three production cycles was much lower in the trial group compared with coccidiostat-fed broilers. Overall mortality decreased by 6.2%. The ovulation rate of the oocysts declined, which interrupted the reinfection cycle. The birds in the trial group had a much stronger immune system compared with the coccidiostat group and were able to cope with higher levels of protozoa pressure.



Herb-All™COCC-X protects young ruminants from coccidiosis and cryptosporidiosis

A field trial with newborn calves showed that Herb-All™COCC-X can support the installation phase and contribute to a reduction in the use of antibiotics. Young calves fed with Herb-All™COCC-X showed much better performance than their counterparts installed with a preventive dose of antibiotics (control group). The average daily weight gain was 7.53% higher in the trial group compared with control animals. Furthermore, these calves had a better general appearance and a nice, shiny coat.

GENERAL INCLUSION RATES

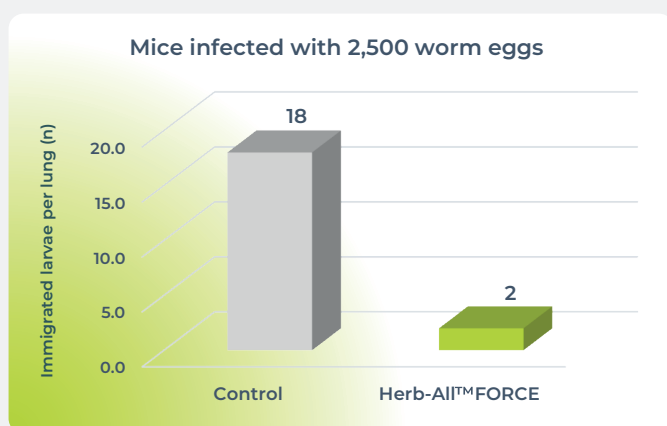
Broilers:	1 kg / ton of feed (first 10 - 14 days), afterwards 500 g / ton of feed
Turkeys:	1 kg / ton of feed
Piglets:	500 g / ton of feed
Sows:	1.5 kg / ton of feed (3 weeks before farrowing)
Calves:	10 g / head / day for at least 4 weeks (at installation)
Lambs, kids:	3 g / head / day for at least 4 weeks
Rabbits:	2 kg / ton of feed
Aquaculture:	up to 2 kg / ton of feed depending on species





Plant-based nutrition to enhance the immune system

Herb-All™FORCE helps to manage parasitic pressure naturally. **It overcomes the reinfection cycle of parasites and intra-flock transmission.** The feed production needs no separate medicated line and has no withdrawal restrictions. Herb-All™FORCE is for production systems in which a non-pharmaceutical approach to control endo-parasites is desired. The product can be used whenever needed without restrictions during well-defined cures, notably in **ruminants, layers, pigs, horses, and wildlife animals.** These cures improve the immunity of the animals, which then build up a natural protection against reinfections.

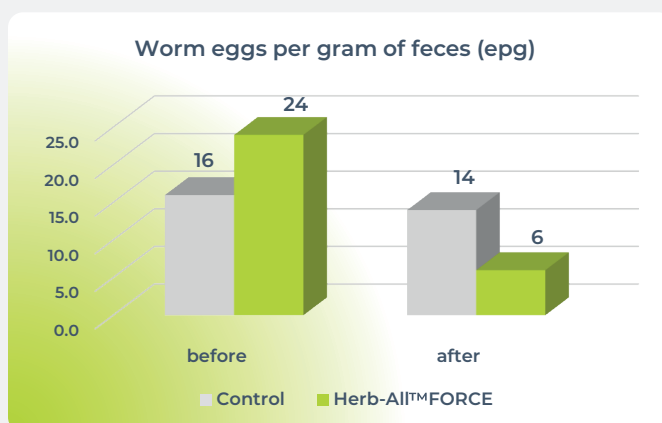


Herb-All™FORCE interrupts the reinfection cycle of parasites

A thesis at the University of Bern demonstrated that Herb-All™FORCE has a detectable effect on migration of larvae from the intestine into the lung (see graph). The aim of the present study was to determine in two independent experiments the anthelmintic effect of Herb-All™FORCE in a murine model for early-stage *A. suum* infections. Herb-All™FORCE is recommended as a prophylactic or a supporting therapy to keep worm infection levels low. (PhD, Thesis, University Bern, Switzerland).

Herb-All™FORCE manages endoparasites in grazing sheep

The trial showed a substantial reduction of worm eggs in feces. The Herb-All™FORCE group had a worm egg reduction of 75%, whereas the control group only reached 12.5% reduction. Herb-All™FORCE was introduced into a mineral mix and fed in the form of licking blocks on the pasture. Animals with a high parasitic pressure demonstrated the ability to cure themselves and build up a specific immunity against parasites. Herb-All™FORCE helps to overcome the reinfection cycle of parasites.



GENERAL INCLUSION RATES

Cows, goats, sheep:	5 g / 100 kg of live weight over 4 weeks (max. 30 g / head / day)
Pigs:	5 g / 100 kg of live weight or 1.5 kg per ton of feed over 4 weeks
Poultry:	1.5 kg / ton of feed over 4 weeks
Horses:	10 g / foal / day over 8 weeks, 30 g / horse / day over 4 weeks
Wildlife animals:	1.5 kg / ton of feed
Aquaculture:	1.5 kg / ton of feed





Plant-based nutrition to keep parasite levels low

Herb-All™PARA-X acts as a long-term protection against parasites. **It strengthens the natural defense mechanism of the animals.** Herb-All™PARA-X contains herbs with anthelmintic properties to interrupt the reinfection cycle and to keep the parasitic pressure low. The feed production needs no separated medicated line and there are no withdrawal restrictions. It can be used in grazing animals or in free-range systems, but it also works well for indoor production, where contamination with parasites is an issue. This herbal protection works in **ruminants, layers, pigs, horses, wildlife animals, and aquaculture.**

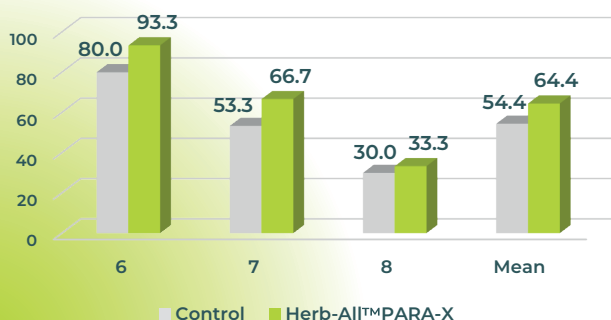
Herb-All™PARA-X manages parasite pressure in laying hens

Herb-All™PARA-X was tested on a commercial layer farm. The control group was dewormed with a chemical deworming product at week 41 after a larvae egg check in the feces revealed more than 2,000 epg (eggs / gram of feces). The trial group with a comparable infection rate was fed with Herb-All™PARA-X. The layers received the herbal mixture at an age of 42 weeks for the next 10 weeks. Using Herb-All™PARA-X weak-end the larvae and interrupted the reinfection cycle.

Worm eggs per gram of feces (epg)



Growth rates (g) of breeder ewe lambs



Herb-All™PARA-X protects young ruminants from parasites

We conducted a field trial with two groups of 60 breeder ewe lambs at an age of six months. During the 3-month observation period, the trial lambs consumed an average of 4.5 g of Herb-All™PARA-X per day. The trial showed a significant effect on growth. The ewe lambs getting Herb-All™PARA-X grew 18.4% more compared with the control group. This underlines the preventive potential of this natural product to guard against parasites while simultaneously promoting growth.

GENERAL INCLUSION RATES

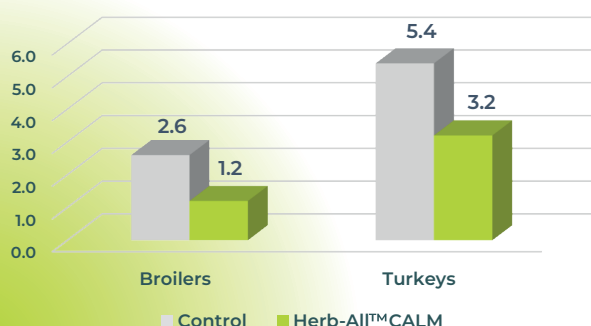
Cows, goats, sheep:	5 g / 100 kg of live weight max. 30 g / head / day (permanent use)
Pigs:	1.5 kg / ton of feed (permanent use in free-range systems)
Poultry:	1.5 kg / ton of feed (permanent use in free-range systems)
Horses:	10 g / foal / day, 30 g / horse / day (permanent use)
Wildlife animals:	1.5 kg / ton of feed (permanent use)
Aquaculture:	2 kg / ton of feed (permanent use)



Plant-based nutrition to calm stressed animals

Herb-All™CALM is recommended when animals are under intense stress, like regrouping, high stocking rate, receiving new feed formulations, or undergoing sexual maturation, vaccination, or transportation. It plays an important role in fighting against **cannibalism in pigs and feather-pecking chicken**. It improves natural levels of serotonin, reduces stress-related corticosteroids and supports the immune system. The pure herbal mixture **calms agitated or aggressive animals** and thus **reduces mortality** at an early stage. Herb-All™CALM increases the effect of vaccination by contributing to a rise in antibodies.

Mortality in early life (%)



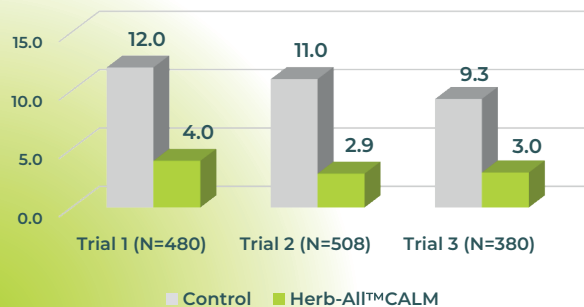
Herb-All™CALM reduces mortality in broilers and turkeys

Both trials showed a significant difference in mortality. The Herb-All™CALM group showed a 53% lower mortality rate than the control group. In addition, the trial with turkeys demonstrated a difference of more than 40% lower mortality for Herb-All™CALM-fed animals. This effect is mainly related to a stronger immune system and thus fewer subclinical infections. Blood analysis results showed a higher rise of antibodies after vaccination. Thus, feeding Herb-All™CALM enhances the effect of vaccination.

Herb-All™CALM protects piglets in the first 28 days of life

We carried out a trial with three consecutive replicates. The graph shows the observed mortality of live-born piglets in the first 4 weeks of life until weaning. With each replicate, the difference in mortality declined, but the difference between control and trial animals remained high. Furthermore, piglets in the trial group were more energetic and the sows were much calmer. Animals receiving Herb-All™CALM had a stronger immune system as measured by a rise in antibodies.

Mortality in the first 28 days of life (%)



GENERAL INCLUSION RATES:

Calves:	15 g / head / day
Beef bulls and steers:	40 g / head / day
Piglets:	1 kg / ton of feed (first 42 days)
Sows:	10 g / head / day
Grower, finisher pigs:	500 g / ton of feed
Poultry (broilers, layers, turkeys, ducks):	500 g / ton of feed
Horses:	20 g / head / day





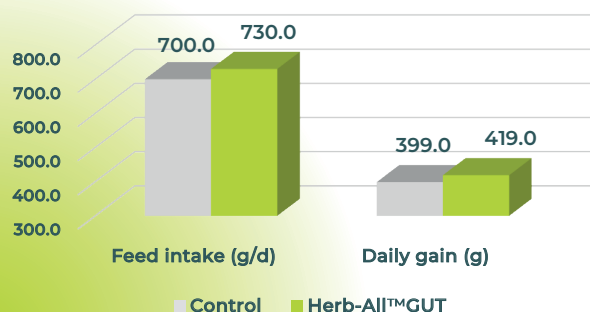
Plant-based nutrition to manage digestion disorders

Herb-All™GUT manages non-specific diarrhea for a faster recovery from dysentery and thus reduces the need for medical treatment. It is recommended in farms where **diarrhea frequency is high**, primarily in young animals such as **piglets and calves**. The product is used in a 4-week prevention regimen to enhance a well-balanced microbiota in the intestine. The product can be also used in combination with a medical treatment to enhance its effect and help the animal recover more quickly. It increases feed efficiency for better weight gain and growth.

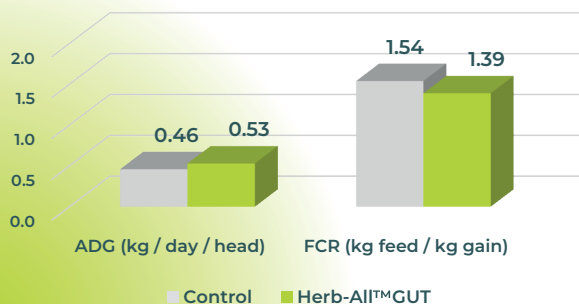
Herb-All™GUT helps avoid diarrhea in weaned piglets and enhances their growth

We tested Herb-All™GUT as a replacement for antibiotics in weaning feed. The control diet contained the commonly used dose of antibiotics (Colistine) and the trial diet contained 1.5 kg of Herb-All™GUT. All piglets got the same feed for a period of six weeks starting at weaning (140 animals per group). The mortality in the trial group was only 1.2% compared with 5.5% in the control group. Also, feed intake was improved by 4.3% and growth rate by 5.0% in Herb-All™GUT-fed animals.

Easy weaning with Herb-All™GUT



Daily weight gain and feed conversion



Herb-All™GUT protects weaned piglets under hot and humid conditions

Herb-All™GUT was tested in a research farm where the frequency of severe post-weaning diarrhea was high. The feed of the control piglets contained antibiotics (Colistine), but the trial group's feed contained 1.5 kg of Herb-All™GUT per ton instead of antibiotics. The trial group experienced more than 15% higher daily weight gain, and feed conversion decreased by 9.7%. Furthermore, the consistency of the feces improved. On the other hand, more than 40% of the control animals showed liquid feces.

GENERAL INCLUSION RATES

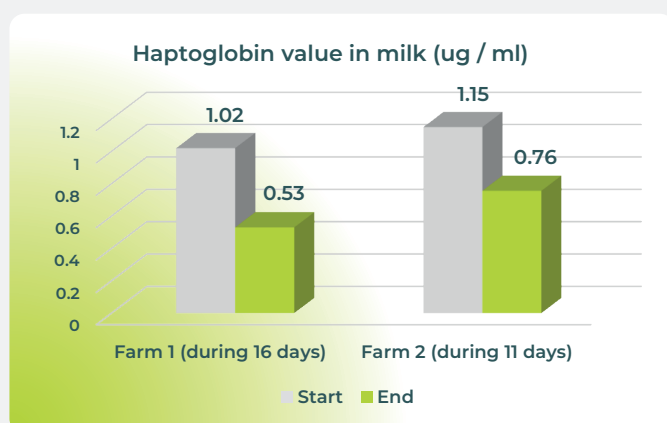
Piglets (weaning feed):	1.5 kg / ton of feed
Grower, finisher pigs:	1.0 kg / ton of feed
Sows, boars:	1.0 kg / ton of feed
Calves:	3 g / head / day
Heifers, fattening bulls:	10 g / head / day
Kids, lambs:	1 g / head / day
Goats, sheep:	3 g / head / day
Dosage for a short period for all species:	20 g / 100 kg of body weight / day





Plant-based nutrition to keep inflammation low

Herb-All™ASA is a natural alternative to commonly used nonsteroidal anti-inflammatory drugs, such as acetylsalicylic acid. Herb-All™ASA only contains pure herbs and plants. They were selected based on their naturally high content of **polyphenols** and **flavonoids** with scientifically proven **antioxidant** and **anti-inflammatory properties**. This pure herbal product reduces the need for medical treatment and meets the expectation of today's consumer. In addition, these secondary plant substances reduce oxidative stress while enhancing the immune system.

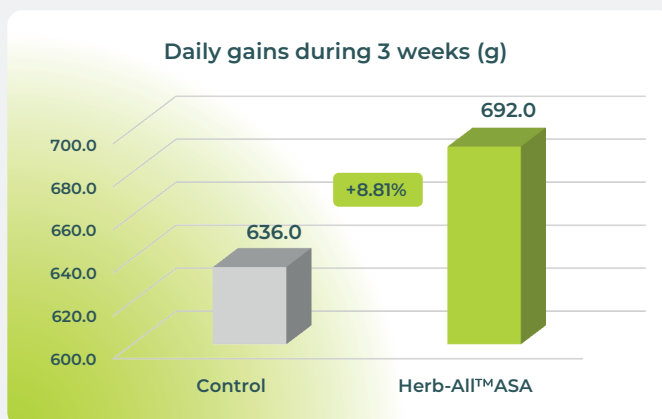


Herb-All™ASA protects freshly calved cows from inflammation

Herb-All™ASA was tested on two dairy farms during the first days after calving. A laboratory analysis of milk samples showed in farm 1 a reduction of the haptoglobin content (Hp) by 48.0% and in farm 2 by 34.3%, respectively. Haptoglobin is an indicator of inflammation. Herb-All™ASA proved to reduce signs of inflammation at the beginning of lactation significantly. This leads to fewer metabolic disorders, faster recovery from calving, and thus a better start to lactation.

Herb-All™ASA prevents the incidence of tail necrosis while enhancing growth

Young pigs entering the fattening stage are especially susceptible to inflammation and necrosis. Tail biting, ear infections, or pathogens may play a role. A trial with the support of the Animal Hospital of Zurich showed that tail necrosis decreased significantly by 35% compared with control animals. Moreover, the haptoglobin content (Hp) of animals fed with Herb-All™ASA declined by 31.5% compared with control pigs. Animals in the trial group also experienced 8.8% higher average weight gains.



GENERAL INCLUSION RATES

Dairy cows:	25 g / head / day over 2 - 3 weeks post-partum
Calves:	5 g / head / day over 3 weeks
Goats:	5 g / head / day over 2 - 3 weeks post-partum
Kids, lambs:	1 g / head / day over 3 weeks
Pigs:	2 - 3 kg / ton of feed over 3 weeks
Poultry:	2 - 3 kg / ton of feed over 3 weeks





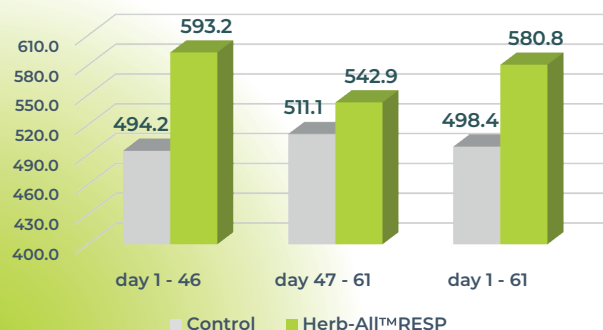
Plant-based nutrition to prevent animal respiratory problems

Herb-All™RESP supports the **physiological defenses** of the **respiratory tract** and **strengthens** the **immune system**. Bovine respiratory disease (BRD), also known as shipping fever or pneumonia, is a significant problem for dairy replacement heifers or young calves in general. Respiratory problems account for 22.5% of deaths in milk-fed calves and 46.5% of deaths after weaning. That means **respiratory diseases** are the single greatest cause of young calves dying after being weaned. Respiratory infections early in life can also lead to long-term effects on performance including decreased probability of survival after first calving.

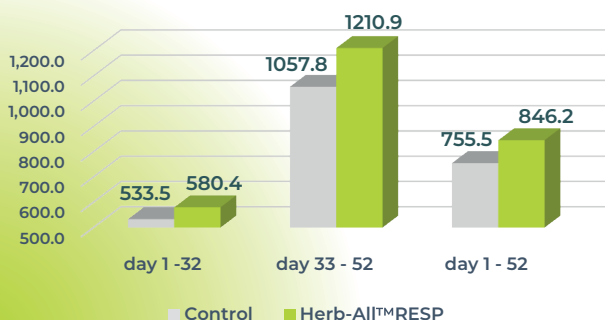
Herb-All™RESP protects female calves from respiratory problems while enhancing growth

We conducted a trial with Herb-All™RESP in female calves to measure the impact of this specific herbal mixture on growth and medical treatments during the first two months of life. The growth rate of the female calves fed with Herb-All™RESP increased by 20% in the first 5 weeks compared with the control animals. Over the whole observation period of 8 weeks (including the weaning phase), calves fed with Herb-All™RESP grew 16.5% faster compared with the control group.

Daily gain in female calves (g)



Daily gain in male calves (g)



Herb-All™RESP protects male calves from respiratory problems while enhancing growth

We observed a similar picture in the trial with male calves. Compared with non-treated animals, young male calves with Herb-All™RESP in their milk replacer experienced an 8.8% higher growth rate during the first 4 weeks of the trial. Overall, the growth improvement (including the weaning phase) was more than 12% in the trial group. In addition to better growth, we observed fewer medical problems among treated animals, and the need for medication declined by more than 50%.

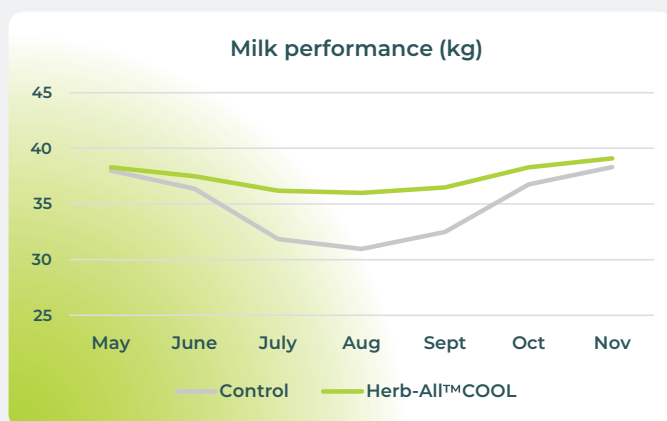
GENERAL INCLUSION RATES

Calves:	4 g / head / day
Dairy cows:	10 g / head / day
Kids, lambs:	1 g / head / day
Goats:	1.5 g / head / day
Grower pigs:	1.5 g / head / day
Sows:	4 g / head / day
Horses:	10 g / head / day
Poultry (broilers, layers, turkeys):	1 kg up to 3 kg / ton of feed



Plant-based nutrition to reduce heat stress

Herb-All™COOL helps to **reduce heat stress** during the **hot season**. Most animals can transfer internal heat to the outside of the body by sweating and panting to maintain body temperature. To reduce heat, animals consume less feed and more water. This leads to an **increased loss of electrolytes**, an **accumulation of acids produced** within the body, **diarrhea**, and **damage** to the **intestine**. **Herb-All™COOL** has strong **natural antioxidant power** to protect the **vital organs** during periods of heat stress and to enhance the immune system.

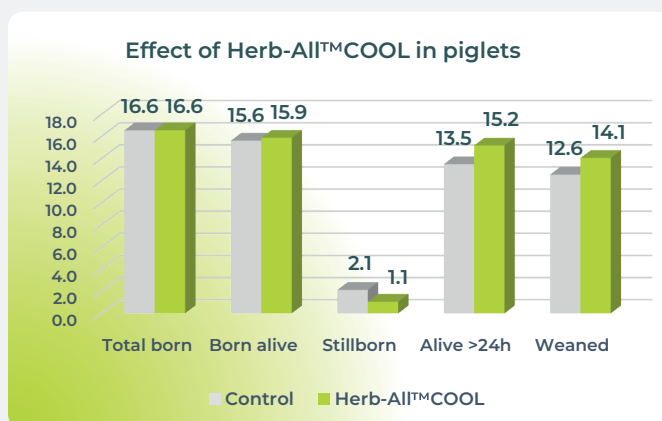


Herb-All™COOL supports milk production during the hot season

A trial with Herb-All™COOL in dairy cows (June-October) showed excellent results. The Temperature-Humidity Index (THI) in July, August, and September was between 77 and 81. A THI of more than 78 is linked to a significant loss in milk production. During the observation period of six months, Herb-All™COOL-fed cows produced 3.21 kg more milk (+8.7%) compared with the control animals. Furthermore, conception rates also improved. Use of Herb-All™COOL in early lactation also helps to reduce inflammation.

Herb-All™COOL strengthens piglets and sows under heat stress

We conducted this study in a farrow-to-finish pig farm in Greece during the hot season. Sows receiving Herb-All™COOL experienced fewer stillbirths and 12.52% more piglets survived the first 24 hours of life. After 28 days, 1.5 piglets more could be weaned. During lactation, the sows lost 13.4% less backfat. Furthermore, the analyzed blood parameters confirmed that sows fed with Herb-All™COOL supported heat stress much better compared with the sows in the control group.



GENERAL INCLUSION RATES

Poultry (broilers, layers, turkeys):	1 kg / ton of feed
Dairy cows:	12 g / head / day
Heifers, fattening bulls:	7 g / head / day
Dairy goats, sheep:	2 g / head / day
Grower pigs:	2 g / head / day
Sows:	4 g / head / day





Plant-based nutrition to partly replace Vitamin A

Natural source of Vitamin A to improve reproductive traits and immune support

Vitamin A is a group of unsaturated nutritional organic compounds. These compounds include retinol (animal source) and pro-vitamin A carotenoids (plant source), such as beta-carotene. Vitamin A has multiple functions: it's important for healthy growth and development (bone health), for the maintenance of the immune system, and for reproduction. Vitamin A from industrial and plant sources must be converted to retinol to be used in the body. This conversion is compromised in unhealthy animals with digestive disorders or a compromised bile production. Therefore, it is important for natural sources of Vitamin A to contain liver- and digestion-supporting secondary plant substances. Such a unique combination of plant metabolites is only found in whole plant products in their natural form. Fortunately, these secondary plant substances are found in Herb-All™A-PLEX, and they enhance the efficacy of the product even at low inclusion rates. When vital parts of the plant are missing (as is the case with extracted products), animal performance will either diminish or the expected performance will only be achieved at higher inclusion rates.

Herb-All™A-PLEX as a rich source of several carotenoids

Most naturally occurring carotenoids are present in fruits and plants with highest concentrations in leaves and other green-to-red parts of the plant. The most commonly found carotenoids in terrestrial plants are red and yellow xanthophylls, such as lutein, zeaxanthin and capsanthin, and beta-carotene. The organic multiplex Herb-All™A-PLEX contains pure plants carefully selected for their large variety of carotenoids combined with other naturally occurring secondary plant substances. Particularly, the combination of liver-supporting and digestion-enhancing plant substances multiplies the efficacy of this natural source of Vitamin A to support growth, immune function, and reproduction in all animal species including aquaculture. Overdosing of Herb-All™A-PLEX is not harmful for the animals.

When to use Herb-All™A-PLEX

- To provide optimum antioxidative power in animal feeds, which improves healthy growth
- To support development and function of the immune system
- To support iron metabolism and increase red blood cells
- To maintain normal skin and mucous function
- To improve hatchability in breeder birds
- To enhance reproductive performance
- To optimize costs in feed formulation

How to use Herb-All™A-PLEX

For all species during phases of fast growth and reproduction for a better and more stable performance.

GENERAL INCLUSION RATES

Dosage for all species:	300 - 400 g per ton of feed or at lower dosage when in combination with Herb-All™E-PLEX
Replacement of Vitamin A:	up to 50% at a ratio of 1 to 1





Plant-based nutrition to partly replace Vitamin C

Natural source of Vitamin C to reduce oxidative cell damage in animals

Stress affects the immune system, feed intake, weight gain, egg production, fertility, egg and carcass quality, and mineral balance. It also increases losses in production. All this leads to oxidative stress and cell damage associated with activated phagocytic leukocytes. The function of leukocytes is to control inflammation and tissue damage linked with the immune response of the animals. Ascorbic acid levels are high in phagocytic cells, which have a major role in killing pathogens that invade the body. In this process, cells and tissues are damaged. They can be protected by feeding animals higher amounts of Vitamin C to better guard against oxidative damage. Healthy animals under ordinary conditions do not respond to a supplement of Vitamin C. However, poultry and pigs do have Vitamin C requirements: 50 to 60 mg/kg in poultry feed, 300 mg/kg in starter feed, and 150 mg/kg in finisher pig diets. During times of environmental, nutritional, and pathological stress, the preventive addition of Vitamin C protects animals from oxidative stress.

Herb-All™C-PLEX is a natural source of Vitamin C and bioflavonoids

The main sources of Vitamin C are fruits and green plants. The content of Vitamin C in industrial feed is very low. Therefore, an addition should be considered. Stability of crystalline Vitamin C is affected negatively by feed processing and storage time. As a result, common Vitamin C must be applied in a coated form, which is costly. Herb-All™C-PLEX contains pure plants with high contents of Vitamin C and other secondary plant substances. This bio-complex enhances the antioxidative power of the product. In particular, the combination of the naturally more stable source of Vitamin C with bioflavonoids in the plants enhances the protective part of the product. Furthermore, Herb-All™C-PLEX contains plants with significant antibacterial properties that multiply the effect of the complete herbal mixture as a cell protectant.

When to use Herb-All™C-PLEX

- To achieve a higher immune response after vaccination, resulting in improved body weight and FCR
- To achieve a synergistic effect in combination with natural Vitamin E
- To reduce stress symptoms (heat, nutrition, stocking density, etc.)
- To increase semen volume and quality in breeder males
- To improve fertility and hatchability in breeder birds
- To optimize costs in feed formulation
- To reduce broken eggs

How to use Herb-All™C-PLEX

For all species during phases of stress and high production for a better and more stable performance.

GENERAL INCLUSION RATES

Dosage for all species:	100 - 200 g per ton of feed or at lower dosage when in combination with Herb-All™E-PLEX
Replacement of Vitamin C:	up to 50% at a ratio of 1 to 1 for pure Vitamin C equivalent





Plant-based nutrition to partly replace Vitamin E

A natural source of antioxidants to improve the antioxidative capacity of animal feed

Common Vitamin E consists of a group of tocopherols. Alpha-tocopherol as an acetate is the most widely used form in animal feed. This molecule is converted to tocopherol during digestion and absorption. The main functions of Vitamin E are related to the immune response of animals, particularly as an antioxidant to prevent the formation of free radicals, the formation of phospholipids, and the enhancement of disease resistance by protecting leukocytes and macrophages. Herb-All™E-PLEX is a mix of naturally grown and carefully selected plants with a high content of natural antioxidants and functional components to replace Vitamin E in feed preparations for all species of food production and even companion animals. These plants are known for their antioxidant capacity and their power as immunostimulants. The plants used in Herb-All™E-PLEX can protect the cells in the body from free radicals more efficiently than common Vitamin E. The partial replacement of Vitamin E with Herb-All™E-PLEX enriches the diet and improves the antioxidant capacity of the feed.

Herb-All™E-PLEX as a rich source of antioxidants

Herb-All™E-PLEX contains pure plants carefully selected for their antioxidant and free radical scavenging properties. Phytochemical analysis shows the presence of major phyto-compounds, including phenolics, alkaloids, glycosides, flavonoids, and tannins. These compounds show a high correlation to the scavenging ability of antioxidants/free radicals to protect cell membranes against oxidation. The wide spectrum of polyphenols acts synergistically, which leads to a Vitamin E sparing effect in the body and as a result improves the antioxidant status of the body. Furthermore, this specific mixture of carefully selected phenolic compounds is transformed through different metabolic pathways into new metabolites with antimicrobial and immunity-enhancing properties that act as a natural promoter of animal performance.

When to use Herb-All™E-PLEX

- To provide optimum antioxidative power and protection in animal feeds
- To overcome stress of vaccination, transportation, stocking density, etc.
- To optimize antioxidant defense of the body against oxidative stress
- To improve immune functions and to prevent infections
- To improve fertility and hatchability in breeder birds
- To improve health, growth, and production
- To optimize costs in feed formulation

How to use Herb-All™E-PLEX

For all species during phases of stress and high production for a better and more stable performance.

GENERAL INCLUSION RATES

Dosage for all species:	100 - 200 g per ton of feed
Replacement of Vitamin E:	up to 50% at a ratio of 1 to 1 of DL-d-Tocopherol-acetate



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