

VEMOZYME[®]
FEED ADDITIVES

VEMOHERB[®]
FEED ADDITIVES



VEMO

PREMIUM
QUALITY
FOR ALL

Enzymes have been widely used in commercial animal feed production for about 25-30 years now. **VEMO** enzymes have been proven effective over their long history of use since the establishment of **VEMO 99** in 1999. The company is also pioneering in herbal feed additives offering innovative growth and reproductivity enhancers.

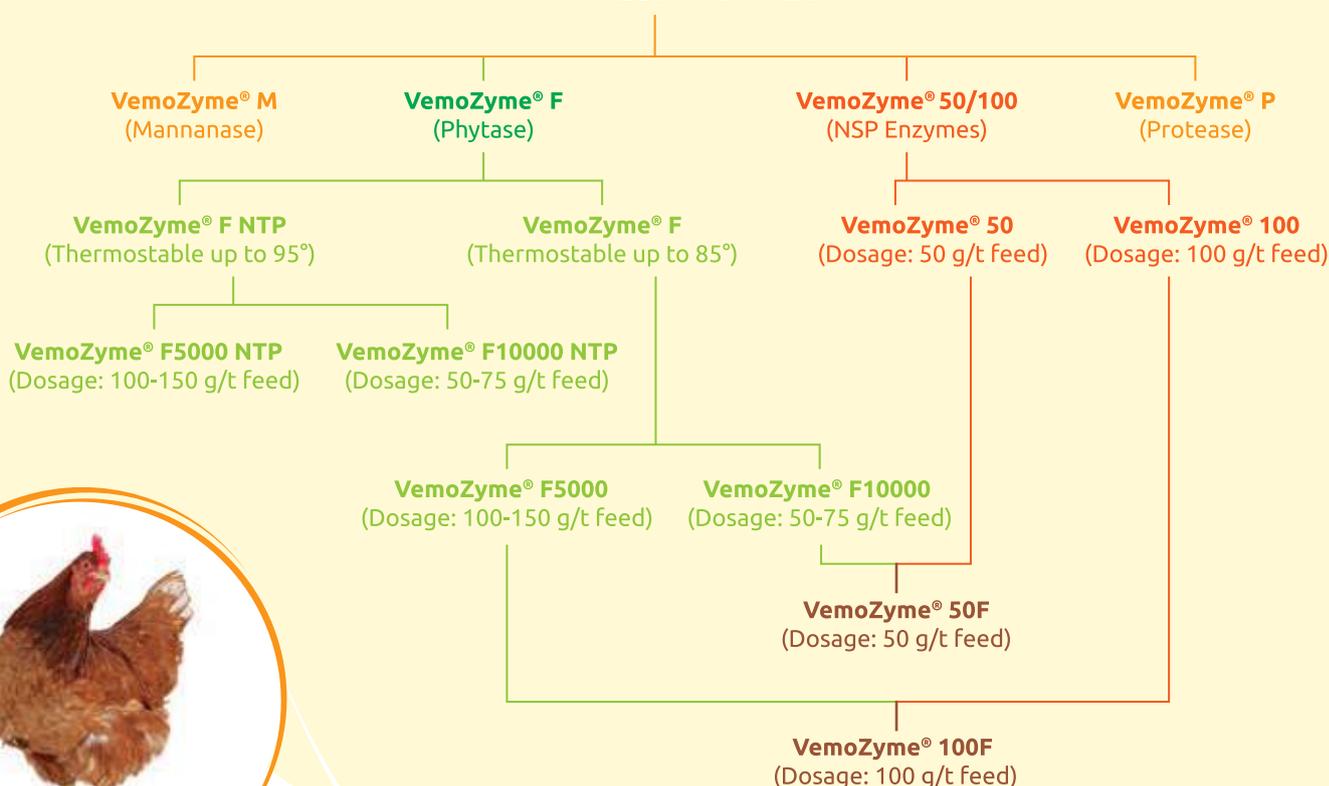
VemoZyme® and **VemoHerb®** product series are well established and successfully distributed on the global markets due to their high quality and competitive prices, the excellent services and loyal relationships that **VEMO 99** shares with its partners.

ENZYME BASED PRODUCTS

All widely used enzyme preparations in animal feed production are included in the **VemoZyme®** series:

Product	Enzyme	Substrate	Feed	Reaction product
VemoZyme® F, VemoZyme® F NTP	Phytase	Phytate Phytic acid	Maize (corn), oat meal, wheat, soybeans, sunflower meal, hominy, tapioca, plant by-products	Phytic phosphorus Inorganic phosphate
VemoZyme® M	Mananase (oligo-mannans degrading)	Mannan	Soybean meal, coconut meal, sunflower meal, etc.	Mannan oligo-saccharides
VemoZyme® P	Protease	Proteins	Vegatable (soybean meal) or animal protein	Peptides Amino acids
VemoZyme® 50/100	Amylase (Fiber degrading)	Starch	Maize	Starch digestibility
	Cellulase	Cellulose	Sunflower groats and wheat bran	Reducing sugars
VemoZyme® 50F/100F	Xylanase (Fiber degrading)	Pentosanes (xylan, araban)	Cereals (wheat)	Reducing sugars
	B-Glucanase (Fiber degrading)	b-Glucan	Barley and oats	Reducing sugars

VEMOZYME® FEED ADDITIVES



VemoZyme® F is a Phytase series. The utilization of phosphorus from phytate becomes possible with the addition of phytase enzyme, because animals do not produce this enzyme themselves. The application of phytase is well known method for degrading phytate complexes and utilization of phytate phosphorus from plants. The use of phytase has great biological, economical and ecological benefits:

- 💧 Increases phosphorus phytate utilization rate of feed by 40%~60%.
- 💧 Increases the utilization rate of calcium, zinc, copper, magnesium, and other minerals.
- 💧 Increases the utilization rate of proteins, amino acids, starch and lipids, in the feed.
- 💧 Decreases the addition of inorganic phosphorus with 6-8 kg per ton feed.
- 💧 Decreases the phosphorus content in the animal's excrements and the pollution of the environment.

The Phytase series consists of two products depending on the thermostability of the enzyme:

VemoZyme® F and VemoZyme® F NTP

Both of these products are offered in 2 enzyme activities: 5 000 and 10 000 phytase units per gram.

(One phytase unit corresponds to the quantity enzyme preparation, needed to release 1 μmol inorganic phosphorus from sodium phytate per 1 minute at 37°C and pH 5.0.)

VemoZyme® F 5000 (Activity: 5 000 U/g)

VemoZyme® F 5000 NTP (Activity: 5 000 U/g)

Dosage: 100 ÷ 150 g/t feed for pigs and poultry (500 ÷ 750 U/kg)

60 ÷ 90 g/t feed for laying hens (300 ÷ 450 U/kg)

VemoZyme® F 10000 (Activity: 10 000 U/g)

VemoZyme® F 10000 NTP (Activity: 10 000 U/g)

Dosage: 50 ÷ 75 g/t feed for pigs and poultry (500 ÷ 750 U/kg)

30 ÷ 45 g/t feed for laying hens (300 ÷ 450 U/kg)

The products show highly efficient enzyme activity in a wide range of pH from 2.0 to 6.0. The products are thermostable and keep stable activity during storing, homogenizing and granulating up to 85°C for **VemoZyme® F** and up to 95°C for **VemoZyme® F NTP**.

VemoZyme® 50/100 is a multienzyme premix, designed to enhance the animal's natural enzyme system with amylase, protease and lipase, and supplement the missing enzymes – xylanase, hemicellulase, β-glucanase, α-galactosidase, mannanase, in order to improve feed digestion and assimilation.

VemoZyme® 50 is applied at doses of 50 g/ton feed.

VemoZyme® 100 is applied at doses of 100 g/ton feed.

VemoZyme® 50F/100F is a multienzyme premix combining the **NSP enzymes** (Xylanase, β-glucanase, Cellulase, α-amylase, Protease, Lipase, β-Mannanase) **and phytase**.

VemoZyme® 50F is applied at doses of 50 g/ton feed.

VemoZyme® 100F is applied at doses of 100 g/ton feed.

VemoZyme® M is based on mannanase enzyme, specifically used for degrading mannan in feed ingredients and improving the utilization rate of nutrients for animals.

VemoZyme® M neutralizes the anti-nutritive effects of mannan and thus:

- 💧 Saves about 3-5% of the feed's metabolic energy.
- 💧 Shows a positive impact on control of coccidiosis in poultry.
- 💧 Relieves the stress on the innate immune system caused by mannose sugars.
- 💧 Increases the activity of digestive enzymes.
- 💧 Increases the absorption of nutrients.
- 💧 Improves the health of animals.

Dosage: 100g/ton feed for layers, broilers and swine

VemoZyme® P is a stable, broad-spectrum protease, optimized to work efficiently in the animal's digestive system.

- 💧 Improves protein digestibility and availability in animal feed.
- 💧 Enhances growth.
- 💧 Improves gut health and animal performance.
- 💧 Allows the use of lower quality protein alternatives in the diet.
- 💧 Saves on feed costs.
- 💧 Limits pathogenic bacteria growth in the intestines.

Dosage: 250 g/ton feed for layers, broilers and swine



HERBAL BASED PRODUCTS

VEMOHERB®
FEED ADDITIVES

VemoHerb® BEES
VemoHerb® BEES+

VemoHerb® Zyme

VemoHerb® T

VemoHerb® BP

VEMOHERB® is a series of innovative herbal feed additives, consisting of the following products:

VemoHerb® BP – Innovative growth stimulant, an alternative to the antibiotic growth promoters. It shows palpable astringent action, anti-microbial, anti-inflammatory and anti-helminthic properties. It is used as a hepatoprotector.

The inclusion of this plant additive in feed rations stimulates the animal's appetite, improves its metabolic and immune status, as well as the general health status and productivity.

Dosage: 100-200 g/ton feed for layers, broilers and swine

VemoHerb® T – Performance enhancer for poultry parent herds and breeding boars.

The addition of **VemoHerb® T** in poultry feed increases the laying capacity by 3%, and the hatchability of the fertilized eggs by more than 6%.

VemoHerb® T contributes for higher insemination ability of breeding boars sperm and increases the insemination doses obtained from one ejaculate by 25%. Sows receiving the product show higher fertility by 3.7%.

Dosage:

- ☛ Poultry - 5-10 mg/kg live weight in drinking water daily or 130-260 g/ton feed
- ☛ Pigs - 5 mg/kg live weight in the feed daily or 250-500 g/ton feed

VemoHerb® Zyme – Biologically active complex of specifically combined herbal extracts and enzymes.

- ☛ Improves feed digestibility and nutrients assimilation
- ☛ Improves metabolic energy values of feed
- ☛ Improves growth intensity and lowers animal production costs
- ☛ Stimulates the immune system
- ☛ Strengthens the overall animal health

Dosage: 200 g/ton feed for pigs and poultry

VemoHerb® BEES – Innovative stimulator for beehives that accelerates the development of colonies, increases their productivity and stimulates the laying activity of queen bees.

Tests performed on bees with **VemoHerb® BEES** show:

- ☛ Extended activity of the laying queens by 42%
- ☛ Extended length of life of worker bees by 17%
- ☛ Reduced consumption of honey during winter by 26%
- ☛ Increased honey productivity by 39%
- ☛ Increased resilience during winter by 6%
- ☛ Increased flight activity of colonies by 56%

This unique product is now upgraded with the addition of invertase enzyme – **VemoHerb® BEES+**, so that every beekeeper can easily prepare inverted sugar syrup on their own.

For more information about our products, product sheets, specifications, research reports and all related data, please contact us at info@vemo.biz.



VEMO | PREMIUM QUALITY FOR ALL

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