

AveMix® P 5000 Premix

for application in monogastric feeds

AveMix® P 5000 Premix is a highly effective phytase which breaks down indigestible phytate (phytic acid), present in all plant feed ingredients. Through this break-down, digestible phosphorus and calcium are being released and other nutrients are made more available.

There is a lack of phytase in the digestive tract of monogastric species, therefore the addition of exogenous enzymes is necessary.

By supplementation of AveMix® P 5000 Premix, the inclusion of inorganic phosphorus in the feed can be reduced. This leads to the reduction of the feed cost and less environmental pollution through the reduction of phosphorus in the manure.

AveMix® P 5000 Premix addition leads to:

- Increase of availability of dietary phytate phosphorus from ± 40% to 60%
- Increase of availability of dietary calcium, zinc, copper, magnesium, and other minerals
- Increase of availability of dietary protein and amino acids
- Increase of availability of dietary starch and lipids
- Inositol produced from phytate degradation is essential to animals

Animal species	Layer	Broiler	Swine
Phosphorus (%)	2350	1200	1400
Available Phosphorus (%)	2000	1000	1150
Calcium (%)	1700	1000	1250
Crude protein (%)	2300	2300	2200
Lysine (%)	125	125	90
Methionine (%)	10	10	27.5
Cystine (%)	30	30	35
ME (Mcal / kg)	540	540	115

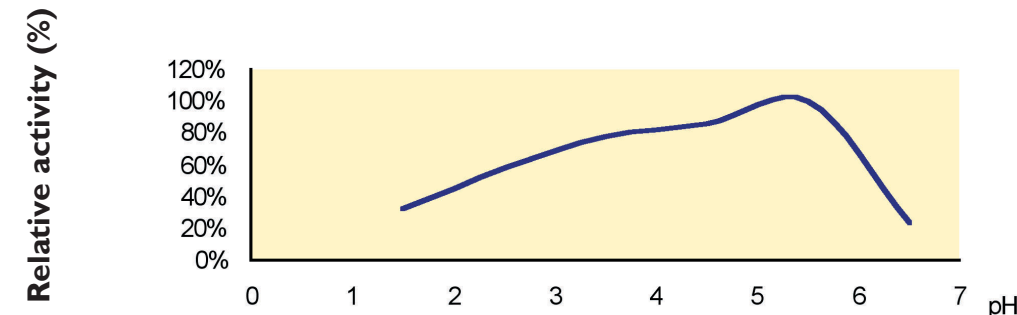
Thermostability

Product variety	Normal temperature (25°C)	70°C 4 minutes	80°C 4 minutes	90°C 4 minutes
AveMix® P 5000 Premix	5000 FU/g	5000 FU/g	5000 FU/g	5000 FU/g
Survival rate (%)		100	100	100

One FU is the amount of enzyme which releases 1 µmol of phosphorus per minute from phytate under defined test conditions

AveMix® P 5000 Premix is guaranteed thermostable up to 90°C.

pH influence on phytase activity of AveMix® P 5000 Premix



AveMix® P 5000 Premix is active in a broad pH area with an optimum at pH 5 – 5.5. Because of this broad pH area, degradation of phytate by AveMix® P 5000 Premix will start in the stomach and will continue in the small intestine. As a result, the potential nutritional value of phosphorus phytate will be improved and the utilization rate of protein, energy, vitamins, trace elements and other nutrients in feed are being promoted.

Recommended dosage of AveMix® P 5000 Premix in complete feed

Species	AveMix® P 5000 Premix			
	Dosage (g / T)	%	FU / kg feed	Substitution of DCP (kg/T)
Layer	60	0.006	300	8.5 – 9.5
Broiler	100	0.010	500	6.2 – 8.5
Pig	100	0.010	500	6.2 – 8.5
Laying Duck	80	0.008	400	7.2 – 9.6
Duck	100	0.010	500	6.2 – 8.5

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Phytase for monogastric feeds

FORMULATION

Powder fermentation product on a carrier material such as calcium carbonate.

STORAGE

A shelf-life of 12 months is guaranteed when the product is stored cool and dry in the original package.

PACKAGE

25 kg triple layer paper bags with a PE-liner.

Further information

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