

PRODUCT DESCRIPTION:

Hilyses® boost the cell multiplication via supplementation of free nucleotides. Therefore, it is an essential ingredient for young animals and breeding stock nutrition. Dietary nucleotides have been reportedly beneficial for young animals since they positively influence lipid metabolism, immunity, tissue growth, and overall development. **Hilyses®** is also a valuable source of yeast functional carbohydrates, β -Glucans (1,3/1,6), mannan-oligosaccharides, short-chain polypeptides, and free amino acids.

GUARANTEED:

BROMATOLOGICAL ANALYSIS

Crude Protein	Mín.	38.0	%(w/w)
Moisture	Máx.	6.0	%(w/w)
Mineral matter	Máx.	8.0	%(w/w)

MICROBIOLOGICAL ANALYSIS

Total Aerobic Mes.Bacteria	≤15,000	CFU/g
Mold and yeast	≤100	CFU/g
Total Coliforms	≤10	MPN/g
Fecal Coliforms	Absent	MPN/g
<i>Escherichia coli</i>	Absent	Per 1 g
Salmonella	Absent	Per 25g

TYPICAL ANALYSIS:

Free Nucleotides/Nucleosides	6.3	%(w/w)
β Glucan (1,3/1,6)	23.5	%(w/w)
MOS	14.2	%(w/w)
Crude Fiber	1.2	%(w/w)
Ether extract	2.2	%(w/w)
Gross Energy	5,122.0	kcal/kg
Digestible Energy	3,904.3	kcal/kg
Metabolizable Energy (poultry)	2,422.3	kcal/kg
Metabolizable Energy (swine)	3,577.7	kcal/kg

AMINO ACIDS	(1)	(2)	(3)	
Alanine	2.95	2.59	2.33	%(w/w)
Arginine	1.82	1.65	1.30	%(w/w)
Aspartic Acid	4.39	4.04	2.56	%(w/w)
Glycine	2.02	1.79	1.53	%(w/w)
Isoleucine	2.14	1.92	0.73	%(w/w)
Leucine	3.08	2.72	2.19	%(w/w)
Glutamic Acid	4.70	4.29	3.64	%(w/w)
Lysine	3.46	3.09	2.53	%(w/w)
Cystine+Cystein	0.38	0.31	0.22	%(w/w)
Methionine	0.65	0.58	0.38	%(w/w)
Phenylalanine	1.87	1.67	0.81	%(w/w)
Tyrosine	1.50	1.42	1.18	%(w/w)
Treonine	2.33	2.05	1.17	%(w/w)
Tryptophan	0.53	-	-	%(w/w)
Proline	1.63	-	1.19	%(w/w)
Valine	2.56	2.21	0.70	%(w/w)
Histidine	0.94	0.85	0.51	%(w/w)
Serine	2.34	2.17	1.63	%(w/w)

(1) Total Amino Acids; (2) Digestible Amino Acids in Swine; (3) Digestible Amino Acids in Poultry

VITAMINS:

B1 - Thiamine	7.065	mg/Kg
B2 - Riboflavin	23.10	mg/Kg
B3 - Niacin	57.30	mg/Kg
B5 - Pantothenic Acid	66.35	mg/Kg
B6 - Pyridoxine	11.80	mg/Kg
B7 - Biotin	1.280	mg/Kg
B8 - Choline	0.972	mg/Kg
B9 - Folic Acid	0.0719	mg/Kg
B12 - Cobalamin	0.0010	mg/Kg

MINERALS

Calcium	190.0	mg/Kg
Phosphorus	450.0	mg/Kg
Potassium	65.50	mg/Kg
Magnesium	315.0	mg/Kg
Manganese	33.00	mg/Kg
Sodium	500.0	mg/Kg
Iron	110.0	mg/Kg

DOSAGE:

SWINE

Piglets Pre-Initial I (day 22 to 28)	kg/ton. of feed	10 to 20.0
Piglets Pre-Initial II (day 29 to 35)	kg/ton. of feed	5.0 to 10.0
Piglets Initial I (day 36 to 47)	kg/ton. of feed	3.0 to 5.0
Sows	kg/ton. of feed	2.0 to 5.0

POULTRY

Broilers - Initial phases	kg/ton. of feed	1.0 to 2.0
Broilers - Growth/Finisher	kg/ton. of feed	0.5
Breeders	kg/ton. of feed	1.0 to 2.0
**Broilers - Initial phases	kg/ton. of feed	3.0 to 5.0
**Breeders	kg/ton. of feed	3.0 to 5.0

**** In cases of flock desuniformity, high mortality, mycotoxin, environmental and health challenges, etc..., the dose should be increased to 5 kg/ton.**

Layers (up to 35 days)	kg/ton of feed	1.0 to 2.0
Layers (35 ~50 days)	kg/ton of feed	1.0 to 2.0
Production	kg/ton of feed	0.5 to 2.0

CATTLE

Dairy and beef cattle	g/head/day	7.0 to 15.0
Calves	g/head/day	7.0

HORSES

Young horses from 0 to 2 years:	g/head/day	7.0 to 10.0
Adult Horses:	g/head/day	10.0 to 20.0

**** In case of high demand. The dosage can be increased up to 30g / head / day**

AQUA

Shrimp

Post-larvae (1 to 4g)	kg/ton. of feed	5.0 to 10.0
Post-larvae & adult (up to 10g)	kg/ton. of feed	5.0
Juvenile & adult (> 10g)	kg/ton. of feed	2.0 to 5.0
Stressful Situation	kg/ton. of feed	5.0 to 10.0

Fish

Initial (larvae & post-larvae)	kg/ton. of feed	5.0 to 10.0
Juvenile	kg/ton. of feed	5.0
Stressful Situation	kg/ton. of feed	5.0 to 10.0

PET

Dogs

Adults	kg/ton. of feed	10.0
Therapeutic Diets	kg/ton. of feed	10.0 to 20.0
Puppy Diets	kg/ton. of feed	10.0 to 20.0

Cats

Adults	kg/ton. of feed	10.0
Therapeutic Diets	kg/ton. of feed	10.0 to 20.0
Kitten Diets	kg/ton. of feed	10.0 to 20.0

ORGANOLEPTIC CHARACTERISTICS:

Visual aspect: Fine powder, beige to a dark brown color.

Aroma: typical without unpleasant notes.

***Hilyses®** is a natural product derived from sugar cane ethanol fermentation and the product color may fluctuate from beige to light brown. This variation does not interfere with its functional quality.

PACKAGING: 25 kg multiwalled paper bags with polyethylene liner/800 kg tote bag.

STORAGE: Store in a cool and dry place, free from pests.

SHELF LIFE: 24 months from production date.

THE PRODUCT IS GMO FREE.



THIS SPECIFICATION SHEET IS ONLY FOR INDICATIVE PURPOSE.