

Product Information

Biolys®

L-LYSINE, FEED GRADE 54.6%

APPEARANCE

Light brown granulate

Bulk density: 650 kg/m³ +/- 10%

Angle of repose: 25°

Particle size distribution min. 90% 300–1600 µm

Solubility: Dispersible

Specified values

Assay: lysine	min. (%)	54.6
Moisture content:	max. (%)	5.0

MOLECULAR DATA

Molecular formula L-lysine sulphate: $[C_6H_{14}N_2O_2]_2 \cdot H_2SO_4$

Molecular weight L-lysine sulphate: 390.4 g / mol

PRODUCTION

Biolys® is produced by a fermentation process. Major parts of the production process are patented.

USE

Biolys® serves for the adequate supply of the essential amino acid lysine. Additionally it contains nutritionally valuable co-products from the fermentation process.

NUTRITIONAL MATRIX

The following are typical values, and might be subject to natural variation.

Additional amino acids from the biomass

Lys 0.50%	Met 0.10%	Met+Cys 0.16%
Thr 0.28%	Trp 0.04%	Arg 0.57%
Val 0.37%	Ile 0.30%	Leu 0.49%

Nutritional matrix

L-Lysine	54.6%	
Digestibility	100 %	
Crude protein (N x 6.25)	80 %	
Phosphorus (total)	0.11%	
Energy	[MJ/kg]	[kcal/kg]
DE swine	17.41	4,158
ME swine	16.54	3,951
NE swine	12.41	2,964
ME poultry	15.88	3,794

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PROCESSING

Biolys® can be processed in feeds by any technical procedure. It is stable during pelleting and other hydro thermal treatments up to 130°C. With respect to dosing accuracy, its lysine content of approx. 55% is particularly advantageous to achieve homogeneous distribution at low supplementation rates.

STORAGE AND STABILITY

Biolys® should be kept cool and dry in unopened original packaging. Storage conditions of 5° –30°C and 20–75% rel. humidity are recommended. Under these conditions its active content is guaranteed for 2 years from the manufacturing date. The manufacturing date is part of the lot number on the package label.

PACKAGING

Valve type paper bag, multiwall, 25 kg net.
Bulk bag/FIBC, 500–1000 kg net.
Bulk silo truck.

REGULATORY AFFAIRS

CAS-No. (L-lysine) 60343-69-3
Customs tariff number: 230990

Biolys® is approved for use in all animal species according to European Feed Law, as well as by many other countries and for swine and poultry by the FDA. It is labeled accordingly.

Biolys® is not subject to dangerous goods regulations.

SAFETY AND ENVIRONMENT

Biolys® can be handled safely.

According to EU chemicals legislation, it is non-toxic, and, if correctly handled, it does not irritate the skin and mucous membranes. Skin sensitization has never been reported, and is unlikely to occur. Accordingly, it is not classified as a hazardous chemical. The usual regulations for safety and hygiene should be followed.

For additional information, please contact us directly.

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