

AJINOMOTO BIOLATINA - INTERAMERICANA

**AJINOMOTO ANIMAL NUTRITION**

L-Lysine HCl 99% - *AjiLys*® 99  
L-Lysine Monohydrochloride 99%

Additive Nutritional for Animal Feed

*Only for animal consumption. Not intended for human use.*

The L-Lysine HCl 99% (*AjiLys*® 99) is produced through the fermentation of raw material of agricultural origin such as sugar cane syrup.

**Intended Use**

Amino acid for all animal species.

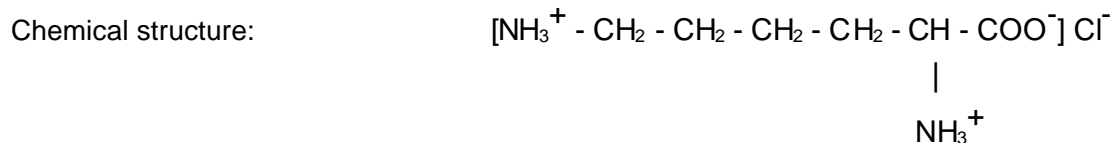
**Basic Composition**

L-Lysine HCl 99%

**Physical Description:**

White to pale yellow crystals.

**Chemical Description**



Chemical formula:  $\text{C}_6\text{H}_{14}\text{N}_2\text{O}_2\text{HCl}$

Molecular weight: 182.65

Isomer: L (Laevo-rotatory)

**Commercial Warranty**

Base Lysine, %	78.0	Minimum	HPLC
Moisture, %	1.5	Maximum	105°C for 4 hours
Purity, %	99.0	Minimum	L-Lysine HCl on dry matter

**Nutritional Values**

Dry Matter, %	98.5	Minimum	105°C for 4 hours
Base Lysine, %	78.0	Minimum	HPLC
Lysine digestibility, %	100		
Crude protein, %	93.4	Minimum	N x 6.25 (by convention)
ME poultry, Kcal/kg	4120	With GE = DE & N retention = 0.40	Larbier & Leclercq, 1992
DE swine, Kcal/kg	4857	from GE values (GE = DE)	Calorimetric pump
ME swine, Kcal/kg	4410	ME : DE = 0.908	INRA 2002
NE swine, Kcal/kg	3435	NE : ME = 0.779	INRA 2002

Informative values only. These do not constitute a commercial warranty.

### Registration

The L-Lysine HCl 99% is registered at the Brazilian Ministry of Agriculture with the numbers SP-07860 00001 (Factory Valparaíso) and SP 59304 30003 (Factory Pederneiras) for use in all animal species.

### Storage and Packaging

Packaging:	25 kg bag, 500 kg, 600 kg and 1000 kg “big bag”.
Storage:	In dry conditions in sealed or closed containers. Keep away from combustion sources.
Stability:	25 kg bag: In closed package the product keeps its stability for 5 years if stored under suggested conditions. “Big bag”: In closed package the product keeps its stability for at least 1 year if stored under suggested conditions.
Manufacturer date:	Same as lot number (Day/Month/Year).

### Additional Information

Informative values only. These do not constitute a commercial warranty.

### Chemical Composition

Residue on ignition, %	0.50	Maximum
Potassium, %	0.30	Maximum
Ammonium, %	0.02	Maximum
Chloride, %	19.12 to 19.45	
Sodium, %	0.02	Maximum
Heavy metals (Pb), ppm	30	Maximum
Arsenic (As <sub>2</sub> O <sub>3</sub> ), ppm	1.0	Maximum
Specific rotation, °	19.7 to 20.8	at 20°C, C2%, HCl 6N

### Examples of practical utilization of L-Lysine HCl in compound feeds

Range of supplementation commonly used. Do not represent maximum or minimum inclusion levels.

Animal Species		kg/MT of feed
Pigs	Piglet	1.5 a 6.0
	Sow	0.5 a 2.0
	Growing-Finishing pig	1.0 a 2.5
Poultry	Broiler	1.0 a 3.0
	Laying hen	0.2 a 2.0
	Turkey/Quail	1.5 a 4.0
Others	Calf Milk replaces	1.0 a 5.0
	Rabbit	0.5 a 1.0
	Pet food	0.5 a 1.0
	Fish	1.0 a 6.0