

Office:

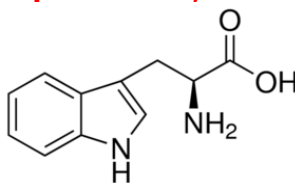
Tomás Diago 748
 Montevideo – Uruguay
 Tel.: +598 2710 4348 – 2710 6351
 Fax: +598 2711 7516
 Email: sales@dirox.com.uy
 Web: www.dirox.com.uy

**Plant:**

National Route N° 1 Km. 48
 Libertad – San José - Uruguay
 Tel.: +598 4345 4186 - 4256
 Fax: +598 4345 4255
 Email: secretarialib@dirox.com.uy
 Web: www.dirox.com.uy

L-Tryptophan – Feed Grade

Tryptophan; L-Trypt, L-2-amino-3-(indole-3-yl) propionic acid, L-Tryptophane, (S)-2-Amino-3-(3-indolyl)propionic acid, L- α -Amino-3-indolepropionic acid

**CHEMICAL CHARACTERISTICS**

CAS N°:	73-22-3
EINECS N°:	200-795-6
Molecular Formula:	C ₁₁ H ₁₂ N ₂ O ₂
Molecular Weight (g/mol):	204.23
Physical Description:	White crystals or crystalline powder

TECHNICAL PROPERTIES

Identification (IR)	Concordant with the reference spectrum
Assay (as C ₁₁ H ₁₂ N ₂ O ₂), %	99.0 ~ 100.5
Content in Tryptophan, %	99.0 ~ 100.5
Specific Rotation [α] _{D20} , °	-30.5 ~ -32.5
Humidity (loss on drying), not more than, %	0.20
Residue on ignition, not more than, %	0.10
Content in Chloride (in terms of Cl), not more than, %	0.02
Content in Sulphate (in terms of SO ₄), not more than, %	0.02
Mass fraction of Iron (Fe) not more than, ppm	20
Mass fraction of Heavy metals (Pb), not more than, ppm	10

APPLICATION

L-Tryptophan is one of essential aminoacids and the fourth limiting aminoacid in animal diets, which means it could not be synthesized by the body, in addition, dietary supply through feed materials is usually insufficient.

The deficiency of L-Tryptophan was generally characterized as decreased feed intake and efficiency, and slow growth rate. Considering L-Tryptophan playing a key role in growth performance and feed efficiency, it's recommended to add L-Tryptophan in diet to achieve the optimal aminoacid balance and fulfill the digestible tryptophan requirement of animals, especially piglets, sows and poultry, etc.

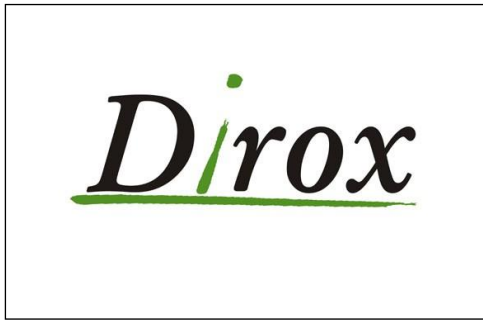
Benefits:

- Increase the feed intake.
- Improve the growth rate, weight gain and feed particularly essential aminoacid profile.
- Optimize the aminoacid profile in feed, particularly essential amino acid profile.



Office:

Tomás Diago 748
 Montevideo – Uruguay
 Tel.: +598 2710 4348 – 2710 6351
 Fax: +598 2711 7516
 Email: sales@dirox.com.uy
 Web: www.dirox.com.uy

**Plant:**

National Route N° 1 Km. 48
 Libertad – San José - Uruguay
 Tel.: +598 4345 4186 - 4256
 Fax: +598 4345 4255
 Email: secretarialib@dirox.com.uy
 Web: www.dirox.com.uy

PACKING & STORAGE

L-Tryptophan feed grade is packed in 25 kg polyethylene bags.
 L-Tryptophan feed grade should be kept cool and dry in unopened manufacturer's packaging.

GUARANTEED SHELF LIFE

Under these conditions of storage, the recommended shelf life of L-Tryptophan feed grade is 2 years from the manufacture date.

TRANSPORT

L-Tryptophan feed grade can be transported by all types of transport in accordance with Goods Transport Rules applicable for this vehicle of product.

CERTIFICATION

Product safety is confirmed by the Safety Data Sheet.

By more information contact to: sales@dirox.com.uy

