



GONMISOL
FINE INGREDIENTS

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Certificate of analysis

Certificado de analisis

L-Tryptophan			
Batch	Manufactured	Expiration	
HLC21062201	22/06/21	21/06/24	
Characters, Appearance	White or almost white crystal or crystalline powder	White crystalline powder	--
Characters, Solubility	Freely soluble in formic acid, slightly soluble in water, very slightly soluble in ethanol	conform	--
Identification	Infrared absorption	conform	USP 39 < 197K>
Assay	NLT 98.5% and NMT 101.0%	100.06%	USP 39 < 541>
Residue on Ignition (Sulfated Ash)	NMT 0.1%	0.06%	USP 39 < 281>
Chloride	NMT 0.02%	< 0.02%	USP 39 < 221>
Sulfate	NMT 0.03%	< 0.03%	USP 39 < 221>
Ammonium	NMT 0.02%	< 0.02%	AJ197
Iron	NMT 20 ppm	< 20ppm	USP 39 < 241>
Lead	NMT 1 ppm	< 1ppm	USP 39 < 233>
Arsenic	NMT 0.5 ppm	< 0.5ppm	USP 39 < 233>
Cadmium	NMT 0.5 ppm	< 0.5ppm	USP 39 < 233>
Mercury	NMT 0.1 ppm	< 0.1ppm	USP 39 < 261>
Heavy Metals	NMT 10 ppm	< 10ppm	USP 39 < 231>
Total Impurities (Ninhydrin Positive)	NMT 10 ppm	< 10ppm	USP 39 < 621>
Optical Rotation	-29.4° to -32.8° (t = 25°C)	-30.50°	USP 39 < 781S>
Optical Rotation	-30.0° to -33.0° (t = 20°C)	-30.80°	USP 39 < 781S>
pH	5.5 ~ 7.0	6.00	AJ197
Loss on Drying	NMT 0.3%	0.17%	USP 39 < 731>
Total viable count	NMT 1000 cfu/g	< 1000 cfu/g	USP 39 < 2021>
Yeast & mould	NMT 100 cfu/g	< 100 cfu/g	USP 39 < 2021>
Enterobacteriaceae	Negative/10g	Negative	USP 39 < 2021>
Salmonella sp.	Negative/10g	Negative	USP 39 < 2022>
Coliforms bacteria	Negative/g	Negative	USP 39 < 2022>
Escherichia coli	Negative/g	Negative	USP 39 < 2022>
Staphylococcus aureus	Negative/g	Negative	USP 39 < 2022>
Bacillus sp.	Negative/g	Negative	USP 39 <

Clostridium sp.

Negative/g

Negative

2022>
USP 39 <
2022>

This product meets quality requirements of USP39, EP8 and FCC10 monographs.

Store in dry conditions and fresh place in sealed or closed container that is to be protected from water, sunlight and heat.

Avoid direct contact with floor and any source of combustion.

Shelf life: Recommend usage within 3 years from date of production

| Information included in this document is provided as supplied by the manufacturer/supplier. Certificate of analysis as received from our supplier. | PQ Gonmisol S.A. |