

L-Tryptophan

Product SPECIFICATION

Product Name	L-Tryptophan
INCI Name	L-tryptophan
EINECS Number	200-795-6
CAS Code	73-22-3

The product meets OR exceeds:
USP

Appearance	White crystals or crystalline powder
Identification	Infrared Absorption
Assay	98.5% ~ 101.5%
Specific rotation	-29.4° ~ -32.8°
PH	5.5 ~7.0
Loss on drying	≤0.3%
Residue on ignition	≤0.1%
Chloride	≤0.05%
Sulfate	≤0.03%
Iron	≤30ppm
Lead	≤3mg/kg
Arsenic	≤1mg/kg
Mercury	≤0.1mg/kg
Cadmium	≤1mg/kg
Bulk Density	≥0.20g/ml
Tapped Density	0.30~0.45g/ml
Particle Size	95% through 40 mesh
Heavy metals	≤15ppm
Organic impurities	Conforms
Total Plate count	≤1000cfu/g
Yeast & moulds	≤100cfu/g
Salmonella	Absent/10g
Enterobacteriaceae	Absent/g
Staphylococcus aureus	Absent/g
E.coli	Absent/g

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GENERAL PRODUCT INFORMATION

Mesh of the product	40
Taped density	≥0.30g/ml
Bulk density	≥0.20g/ml
Water solubility	Slightly soluble in water. 11.4g/L at 25 DEG C
Origin (Synthetic, Fermentation)	fermentation
Origin (Animal, Vegetal, etc.)	Glucose
Is the product and their ingredients FREE of GLUTEN?	Yes
Product is suitable for Vegans	Yes
Product is suitable for Vegetarians	Yes
Product is free of fructose	Yes
Is this product suitable for food?	Yes
Can be the product used in baby food (According to Directive 2006/141/CE)?	Yes
Pharmacopoeias that product meets	USP
Drug indication	Tryptophan plays important structural or functional roles whenever it occurs
Melting Point	282 Deg. C
Country of the raw material/s	China
Storage conditions (In the warehouse)	Preserve in well-closed containers
Storage conditions (During the transport-Short term)	Preserve in well-closed containers

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TECHNICAL PRODUCT INFORMATION

IUPAC name	Tryptophan
ATC Code	N06AX02
Molecular Formula	C11H12N2O2
Molecular mass	204.22 g/mole
Raw materials used and their function	Glucose
Frequency of analysis of each contaminant?	Every batch
Frequency of analysis of microbiology?	Every batch, Every batch
Frequency of analysis of each heavy metals?	Every batch, Every batch

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FOREIGN BODIES

Explanation about control of the foreign bodies during the manufacturing process:

Metal detector	Yes	before packing, When the detector sound, the material is removed manually by the operator
Sieve	Yes	After smash, put on the production line
Filter	Yes	after fermentation, put on the production line

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INGREDIENTS

In accordance with the Directive 2003/89/EC We confirm this is the ingredients and their content in %

L-Tryptophan 99%

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BSE/TSE

The product does not contain and is not derived from Specified Risk Material as defined in Commission Directive European and it is conform to the EU legislation relating to the risk of Transmission of Spongiform Encephalopathy (TSE).

GMO

Following EU regulations have been published in the Official Journal of the European Union:

- Regulation (EC) No.1829/2003 of the European Parliament and the Council of 22nd September 2003 on genetically modified food and feed
- Regulation (EC) No.1830/2003 of the European Parliament and the Council of 22nd September 2003 concerning tractability and labeling on genetically modified organisms and tractability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.

This product has not been genetically modified so there is no obligation of GMO labeling as defined by the above mentioned regulations.

NON IRRADIATION/NON IONIZED

According to directives 1992/2/EC and 1999/3/EC, We confirm is not made from irradiated/ionized raw materials or was irradiated/ionized the product.

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PESTICIDES

To our actual knowledge of production process, raw materials and equipment used potential pesticide residues in the above mentioned product comply with the European legislation on pesticide residues, esp. Regulation (EC)None. 396/2005. However, we do no test for pesticide residues on a routine basis.

RESIDUAL SOLVENTS

The product meets with:

- DIRECTIVE 2009/32/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 April 2009 on the approximation of the laws of the Member States on extraction solvents used in the production of foodstuffs and food ingredients
- DIRECTIVE 2010/59/EU of 26 August 2010 amending Directive 2009/32/EC of the European Parliament and of the Council on the approximation of the laws of the Member States on extraction solvents used in the production of foodstuffs and food ingredients.

CONTAMINANTS

The product is in accordance and meets with the commission regulation (EC) No.629/2008 of 2 July 2008 amending regulation (EC) No.1881/2006 setting maximum levels for certain contaminants in foodstuffs.

PCBS and MELAMINE

The product is in accordance and meets with the commission regulation (EU) No.594/2012 of 5 July 2012 amending regulation (EC) No.1881/2006 as regards the maximum levels of the contaminants Ochratoxin a, non dioxin-like PCBS and melamine in foodstuffs.

ANTI-DOPING

As per the list of 2012 of the world anti-doping agency the ingredient is not a doping substance and not a combination of doping substances. The ingredient does not contain any doping substance. The ingredient does not result from a doping substance.

As per the list of 2016 of the world anti-doping agency the ingredient is not a doping substance and not a combination of doping substances. The ingredient does not contain any doping substance. The ingredient does not result from a doping substance.

NANOMATERIALS

According to the the definition of 'nanomaterials' of the UE REGULATION (EU) No 1169/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 October 2011 on the provision of food information to consumers , we hereby attest that no nanomaterials are used in the formulation nor in the packaging materials of our product.

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PACKING

We confirm that the packing used is in compliance with:

- Commission Directive 2002/72/EC of 6 August 2002 relating to plastic materials and articles intended to come into contact with foodstuffs.
- Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC
- Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

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ALLERGENS

In accordance with the Directive 2003/89/EC and Council amending Directive 2000/13/EC and taking Directive 2005/26/EC, Directive 2005/63/EC and Directive 2006/142/EC of 22.12.2006 into consideration. We confirm the following information:

Note: Does the raw material CONTAIN or is it DERIVED from or could it be CROSS-CONTAMINATED by any of the following.

Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof	No
Crustaceans and products thereof	No
Eggs and products thereof	No
Fish and products thereof	No
Peanuts and products thereof	No
Soybeans and products thereof	No
Milk and products thereof (including lactose)	No
Nuts (i.e. Almond, Hazelnut, Walnut, Cashew, Pecan nut, Brazil nut, Pistachio nut, Macadamia nut and Queensland nut and products thereof)	No
Celery and products thereof	No
Mustard and products thereof	No
Sesame seeds and products thereof	No
Sulphur dioxide and sulphite at concentrations of more than 10 mg/kg or 10 mg/l expressed as SO ₂	No
Lupine and products thereof	No
Molluscs and products thereof	No

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ALBA LIST (ALLERGENS)

When it is written 'No' means that there's no contamination in:

Contain in recipe, Handled on same production line or Handled at same side.

Where: 1) Contain in recipe 2) Handled on same production line 3) Handled at same side.

	Cross contamination (mg/kg)?	Where?
Cow milk protein	No	-
Lactose	No	-
Chicken egg	No	-
Soya protein	No	-
Soya oil	No	-
Gluten	No	-
Wheat	No	-
Rye	No	-
Cattle	No	-
Pork	No	-
Chicken	No	-
Fish	No	-
Shellfish and Crustaceae	No	-
Corn	No	-
Cocoa	No	-
Leguminous plants	No	-
Nuts	No	-
Nut oil	No	-
Peanut	No	-
Peanut oil	No	-
Sesame	No	-
Sesame oil	No	-
Glutamate	No	-
Sulphide (E220 to E228)	No	-
Coriander	No	-
Celery	No	-
Carrot	No	-
Lupines	No	-

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NUTRITIONAL INFORMATION

The values given are approximate

Nutrition information per 100g

Calories 400 Kcal
Protein 0 g
Carbohydrates 0g
Dietary Fiber 0 g
Fat Total 0 g
Saturated Fat 0 g
Mono Fat 0 g
Poly Fat 0 g
Cholesterol 0 mg
Thiamin-B1 0 mg
Riboflavin-B2 0 mg
Niacin-B3 0 mg
Vitamin B6 0 mg
Vitamin B12 0 mcg
Ash ≤ 0.1 g
Alcohol 0 g
Sugar Alcohol 0 mcg
Folic Acid 0 mcg
Pantothenic Acid 0 mg
Vit.E-Alpha Eq 0 mg
Calcium 0 mg
Copper 0 mg
Iron 0 mg
Magnesium 0 mg
Phosphor 0 mg
Potassium 0 mg
Sodium 0 g
Zinc 0 mg
Sugars 0g
Vitamin D 0 mcg
Starch 0 g
Water (moisture) $\leq 0.3\%$
Vitamin C 0 mg
Insol. Fiber 0 g
Sol. Fiber 0 g
Crude Fiber 0 g
Biotin 0 mg
Iodine 0 mg

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RESIDUE LIMITS

For the products/s mentioned above We herewith certify that the ingredient mentioned is in compliance with: commission regulation (EU) 2016/355 of 11 march 2016 amending Annex III to regulation (EC) No. 853/2004 of the European parliament and of the council as regards the specific requirements for gelatine, collagen and highly refined products of animal origin intended for human consumption.

HYGIENE OF FOODSTUFFS

For the products/s mentioned above We herewith certify that the production complies with regulation (EC) No. 852/2004 of the European parliament on the hygiene of foodstuffs and all its amendments.

FULL TRACEABILITY

For the products/s mentioned above We herewith the full traceability as mentioned in regulation (EC) No. 178/2002 of the European parliament and of the council of 28 January 2002 laying down the general principles and requirements of food law, establishing the European food safety authority and laying down procedures in matters of food safety.

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FACTORY ACCREDITATIONS/CERTIFICATIONS

ISO 9001	Yes
ISO 14001	No
ISO 22000	No
HACCP	Yes
GMP	No
FAMI QS	No
BRC	No
Other accreditations/certifications	Kosher, Halal

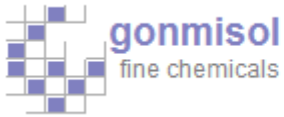
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NON ANIMAL TESTING

We certify that the product has not been tested on animals for cosmetic purposes.

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MSDS (Material Safety Data Sheet)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: TRYPTOPHAN

Product Name: L-Tryptophan

CAS Number: 73-22-3

Synonym: (S)-2-Amino-3-indolepropionic acid

Synonym: (S)-2-Amino-3-indolylpropanoic acid

Synonym: 3-(3-Indole)-L-alanine

Supplier Information:

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2 HAZARDS IDENTIFICATION

Adverse human health effects : Nervous system disorders.

May be harmful if swallowed. Exposure may produce an allergic reaction.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Components : This product is not hazardous.

Substance name - Contents - CAS No - EC No

Tryptophan - 73-22-3 - 200-795-6

4 FIRST AID MEASURES

First aid measures

- Inhalation : Assure fresh air breathing. Rest. If you feel unwell, seek medical advice.

- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

- Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.

- Ingestion : Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison centre. Show the label and this safety data sheet.

5 FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media : Water spray. Carbon dioxide. Dry powder.

- Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous combustion products : Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

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MSDS (Material Safety Data Sheet)

6 ACCIDENTAL RELEASE MEASURES

General precautions : Remove ignition sources. Evacuate area.

Personal precautions : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

Clean up methods : To clean the floor and all objects contaminated by this material, use : Water. / Detergent. Avoid dust production. Ensure adequate ventilation.

7 HANDLING AND STORAGE

Personal protection : Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.

Handling : Handle in accordance with good industrial hygiene and safety procedures.

Storage : TRYPTOPHAN CRS is not intended for long-term storage. Keep container tightly closed in a cool, well ventilated place.

Storage - away from : All heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks.

Incompatible materials, see §10

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection 8 = :

- Respiratory protection : Wear approved mask. (P1)

In case of insufficient ventilation, wear suitable respiratory equipment.

- Hand protection : Wear suitable gloves resistant to chemical penetration.

- Skin protection : Wear suitable protective clothing.

- Eye protection : Chemical goggles or safety glasses.

Industrial hygiene : Provide local exhaust or general room ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Chemical formula : C₁₁H₁₂N₂O₂

Molecular weight : 204.2

Physical state at 20 °C : Powder.

Colour : White.

pH value : 5.5-6.5

Melting point [°C] : Decomposes above 289 °C

Boiling point [°C] : No data available.

Solubility in water : Partially soluble.

Flash point [°C] : No data available.

10 STABILITY AND REACTIVITY

Stability and reactivity : Stable under normal conditions.

Materials to avoid : Strong oxidizers.

Conditions to avoid : None known.

Hazardous decomposition products : Nitrogen oxides. Carbon dioxide. Carbon monoxide.

When heated to decomposition, emits dangerous fumes.

Hazardous reactions : None under normal conditions.

Hazardous polymerization : Will not occur.

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MSDS (Material Safety Data Sheet)

11 TOXICOLOGICAL INFORMATION

RTECS nr : YN6130000 (See actual entry in RTECS for complete information.)

Rat oral LD50 [mg/kg] : >16000

Rabbit dermal LD50 [mg/kg] : No data available.

Rat inhalation LC50 [mg/L/4h] : No data available.

Acute toxicity : Nervous system disorders.

May be harmful if swallowed.

Chronic toxicity : No data available.

Sensitization : No data available.

12 ECOLOGICAL INFORMATION

Ecological effects information

LC50-96 Hour - fish [mg/L] : No data available.

EC50-48 Hour-Daphnia magna [mg/L] : No data available.

IC50-72h-Algae [mg/L] : No data available.

Persistence - degradability : Potentially biodegradable.

Log P octanol / water at 20°C : No data available.

Bioaccumulative potential : No data available.

13 DISPOSAL CONSIDERATIONS

General : Dispose of this material and its container at hazardous or special waste collection point.

Dispose in a safe manner in accordance with local/national regulations.

14 TRANSPORT INFORMATION

General information : Not regulated.

15 REGULATORY INFORMATION

Symbol(s) : None.

R Phrase(s) : None.

S Phrase(s) : S22 : Do not breathe dust.

S36/37 : Wear suitable protective clothing and gloves.

16 OTHER INFORMATION

Further information : Revision - See : *

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