

Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146
www.gojirafc.com • sales@gojirafc.com

Certificate of Analysis

L-Tryptophan USP

 Catalog Number:
 TP1004

 Lot Number:
 0828702

 CAS Number:
 73-22-3

Synonym(s): (S)-2-Amino-3-(3-indolyl)propionic acid, L-α-Amino-3-indolepropionic acid

 $\begin{tabular}{lll} \textbf{Molecular Formula:} & $C_{11}H_{12}N_2O$ \\ \textbf{Molecular Weight:} & 204.23 \\ \textbf{Storage:} & $15^{\circ}C-30^{\circ}C$ \\ \textbf{Date of Manufacture:} & $April\ 14,\ 2017$ \\ \textbf{Retest Date:} & $April\ 13,\ 2019$ \\ \end{tabular}$

Test	Specification	Result
Appearance	White to yellowish-white powder	Conforms
Assay	98.5 – 101.5%	99.55%
Identification (IR)	Conform to standard	Conforms
Specific Rotation @25°C	-29.4° to -32.8°	-31.3°
рН	5.5 – 7.0	5.6.
Moisture (LOD)	≤ 0.3%	0.15%
Residue on Ignition	≤ 0.1%	0.06%
Chloride	≤ 0.05%	< 0.02%
Sulfate	≤ 0.03%	< 0.02%
Heavy Metals	≤ 15ppm	<10ppm
Arsenic	≤ 1.0ppm	< 1.0ppm
Cadmium	≤ 1.0ppm	< 1.0ppm
Iron	≤ 30ppm	< 10ppm
Lead	≤ 1.0ppm	< 1.0ppm
Mercury	≤ 1.0ppm	< 1.0ppm
Organic Volatile Impurities	To meet requirements	Conforms
Total Plate Count	≤ 1000cfu/g	< 1000cfu/g
Yeast & Mold	≤ 100cfu/g	< 100cfu/g
Coliforms	≤ 10cfu/g	< 10cfu/g
E. coli	Negative	Negative
Salmonella	Negative	Negative
S. aureus	Negative	Negative
Bulk Density	≥ 0.20g/ml	0.24g/mL
Tap Density	≥ 0.30g/mL	0.33g/mL

Approved by: Date: August 29, 2017

For research purposes only. Not for drug or clinical use in humans or human food additive use.



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