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## Certificate of Analysis

<b>Product</b>	<b>10263 - L-Tryptophan extrapure CHR, 99% - [73-22-3]</b>
<b>Batch No</b>	<b>3653253</b>
<b>Analysis Date</b>	18-Dec-2022
<b>Date of Manufacture</b>	December 2022
<b>Expiry Date/Re-Test Date</b>	December 2027
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight</b>	204.23

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to off-white	Off-white
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Colour) 10% solution in 1M HCl	Clear	Clear
Assay (NT)	min 99%	99.3%
Specific rotation [ $\alpha$ ] @25°C	-33 to -30°, (C=1,water)	-31.354°
Loss on drying	max 0.5%	0.03%
Sulphated Ash	max 0.1%	0.02%
Chloride (Cl)	max 0.01%	Passes
Sulphate (SO <sub>4</sub> )	max 0.01%	Passes
Iron (Fe)	max 0.001%	Passes
Heavy Metals (Pb)	max 0.001%	Passes
Ammonium (NH <sub>4</sub> )	max 0.01%	Passes
Homogeneity by TLC	Passes test	Passes

FRM/82/11/4/10263 Rev No. 2 Date 17/12/2022

Prepared by Komal

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

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1/1

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