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SPECIFICATION SHEET

Product Name	L- Tryptophan Powder	
Country of Origin	China	
TESTS ITEMS	**LIMITS**	**METHOD**
Appearance	White crystals or yellowish crystals or crystalline	Visual
Identification	PASS	
1,1'-ethylidenebistryptophan	≤ 10.00ppm	EP-Liquid Chromatography
Sum of impurities with RT	≤ 100.00ppm	EP-Liquid Chromatography
Imp RT> Tyrp RT & ? 1.8 x RT N-acetyltryp	≤ 300.00	EP-Liquid Chromatography
Appearance of Solution	PASS	
Specific Rotation @ 20°C	-33.000-30.000	EP
Chloride	≤200.00%	EP-limit Test
Ammonium	≤200.00ppm	
Iron	≤20.00mg	EP-limit Test
Sulfate	≤300.00ppm	EP-limit Test
Heavy Metals	≤10.00ppm	EP-limit Test
Loss on Drying	≤0.50%	EP
Residue on Ignition	≤0.10%	EP
Assay	98.500～101.000%	EP
Positive Ninhydrin Substances	NF	

Conclusion: Passed test according to the Standard of USP24

Note: The above information is based on the certificate of analysis received from the manufacturer of this product and not intended as a substitute for strict quality control analysis by the purchaser of this product.

Reviewed by :_____
Abdullah Malik (QA)