



Bio Basic Inc.

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CERTIFICATE OF ANALYSIS

Product	L-Tryptophan
Grade	USP Grade
Product Code	TB1911
Formula	$C_{11}H_{12}N_2O_2$
MW	204.2
CAS#	73-22-3
Lot#	

Test Items	Specifications	Results
Appearance	White crystals or crystalline powder	
Identification (IR)	Concordant with the reference spectrum	
Purity	98.5-101.5%	
pH(1% water)	5.5-7.0	
Specific Rotation $[\alpha]^{25}_D$	-29.4° to -32.8°	
Chloride	≤0.05%	
Sulfate	≤0.03%	
Iron	≤30ppm	
Heavy metals	≤15ppm	
Loss on Drying	≤0.30%	
Residue on Ignition	≤0.10%	
Organic volatile impurities	Meet the requirements	

Storage: Store at room temperature.

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