



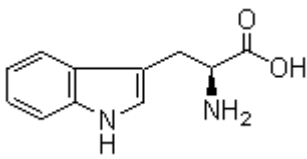
HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: **DYC071601122**

Product name	L-Tryptophan
CAS Number	73-22-3
Molecule Structure	
Molecule Formula	C ₁₁ H ₁₂ N ₂ O ₂
Batch number	201501020
Manufacture date	2015-10-20
Testing date	2015-10-20
Expiry date	2017-10-19

Items	Standard	Result
Appearance	White-like crystalline powder	Conform
Assay	98.5~101.5%	99.5%
Specific rotation{ α }	-29.4° ~ -32.8°	-30.8°
PH value (1.0g/20ml water)	5.5~7.0	6.1
Heavy metals(as PB)	≤0.0015ppm	<0.0015ppm
Loss on drying	≤0.30%	0.05%
Residue on ignition	≤0.1%	0.05%
Chloride(as Cl)	≤0.05%	<0.05%
Sulphate(SO ₄)	≤0.03%	<0.03%
Iron(as Fe)	≤0.003%	<0.03%
Organic volatile impurities	Meets the requirements	Meets the requirements
Conclusion	The product conforms to requirements of USP32.	

QUALITY CONTROL:
Hangzhou Dingyan Chem Co., Ltd.
Quality Control *Edith*
Signature(s)

CHECK: 姚仙娟

INSPECTOR: 刘清风

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