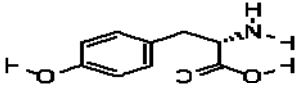




HANGZHOU DINGYAN CHEM CO., LTD  
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## CERTIFICATE OF ANALYSIS

NO: DYC081503104

Product name	L-Tyrosine(USP 32)
CAS Number	60-18-4
Molecule Structure	
Molecule Formula	C9H11NO3
Batch number	20140823
Manf&Exp. Date	2014-08-23,2016-08-22
Testing date	2014-08-23

Items	Standard	Result
Appearance	White crystals or crystalline powder	White crystalline powder
Identification	IR: Complies with the ref. spectrum	Complies
Assay	98.5-101.5%	99.6%
Chromatographic purity	Complies	Complies
Specific rotation (20/D)	-9.8° ~ -11.2°	-10.8°
Heavy metals(as Pb)	0.0015% max	Complies
Chloride	0.04% max	Complies
Sulfate	0.04% max	Complies
Iron	0.003% max	Complies
Organic volatile impurities	Meets the requirement	Complies
Loss on drying	0.3% max	4
Residue on ignition	0.4% max	0.05%
Conclusion	Complies with standard of USP32.	

Hangzhou Dingyan Chem Co., Ltd.  
Quality Control  
QUALITY CONTROL:  CHECK: 姚仙娟  
INSPECTOR: 刘清风