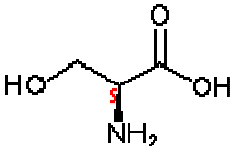


CERTIFICATE OF ANALYSIS

NO: **DYC041801092**

Product name	D-Serine
CAS Number	312-84-5
Molecule Structure	
Molecule Formula	C3H7NO3
Batch number	20180105
Manuf&Exp. Date	2018-01-05;2020-01-04
Testing date	2018-01-06

Items	Standard	Result
Appearance	White crystals or crystalline powder	Complies
State of solution	95.0%min	99.0%
Specific rotation [α] _{D20}	-13.5° ~ -16.0°	-15.1°
Chloride(Cl)	0.20% max	0.20% max
Ammonium(NH ₄)	0.20% max	0.20% max
Sulfate(SO ₄)	0.20% max	0.20% max
Iron(Fe)	10ppm max	10ppm max
Heavy metals(Pb)	10ppm max	10ppm max
Arsenic(As ₂₀₃)	1ppm max	1ppm max
Other Amino acids	0.50% max	0.50% max
Loss on drying	0.50% max	0.16%
Residue on ignition	0.20% max	0.06%
Assay	98.5~100.5%	99.3%
PH	5.2~6.2	5.8


QUALITY CONTROL: *Cristina* **CHECK:** 姚仙娟 **INSPECTOR:** 刘清风
Quality Control Signature(s)

Add: Xiasha 571,19TH Street E-COMMERCE 4A601-602,Jiangnan Area, Hangzhou, China