



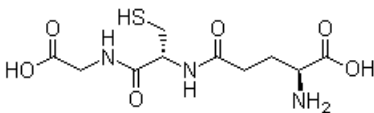
HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: **DYC0917030107**

Product Name	L-Glutathione Reduced
Product Grade	Nutraceutical Grade
CAS Number	70-18-8
Molecule Structure	
Molecule Formula	C ₁₀ H ₁₇ N ₃ O ₆ S
Batch Quantity	100 KGS
Batch Number	16090701
Mfg. & Exp. Date	2016-09-07 & 2019-09-06
Testing Date	2016-09-12

Items	Standard	Result
Appearance	White to off-white crystalline powder	White crystalline powder
Identification	IR should conform	Conform
Specific optical rotation	-15.5~-17.5°	-16.4°
Clarity of solution	Should be clear & colorless	Conform
Heavy metals	≤10ppm	Conform
Arsenic	≤1ppm	Conform
Sulfate	≤300ppm	Conform
Ammonium	≤200ppm	Conform
Iron	≤10ppm	Conform
Cadmium	≤1ppm	Conform
Lead	≤3ppm	Conform
Mercury	≤0.1ppm	Conform
Related substances	GSSG≤1.5%	0.1%
	Total impurities≤2.0%	0.4%
Loss on drying	≤0.5%	0.2%



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Residue on ignition	≤0.1%	0.02%
Total plate count	≤1000cfu/g	<1000cfu/g
Yeast & mold	≤100cfu/g	<100cfu/g
Total coli forms	≤100cfu/g	<100cfu/g
E. coli	Not detectable	Not detected
S. aureus	Not detectable	Not detected
Salmonella	Not detectable	Not detected
Assay	98.0~101.0%	99.2%
Conclusion	This product conforms to In-house standard.	

QUALITY CONTROL: 

CHECK: 姚仙娟

INSPECTOR: 刘清风