



Chengdu YoungShe Chemical Co.,Ltd

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Certification of Analysis

产品分析证明书

Product		L-Glutathione Reduced 还原型谷胱甘肽	
分子式 MF.	$C_{10}H_{17}N_3O_6S$	批号 Batch No.	YS1805GSH
分子量 MW.	307.32	批量 Batch Quantity	1000kg
CAS No.	70-18-8	生产日期 Manufacturing Date	05/10/2018
复测 Retest Date	05/2020	过期日期 Expiry Date	05/09/2020
结构 Structure			
检验项目 TEST		检验指标 SPECIFICATION	结果 RESULT
1	外观 Appearance	White to off-white powder	Conforms
2	鉴别 Identification	By HPLC RT	Conforms
3	溶解性 Solubility	Very soluble in water	Conforms
4	炽灼残渣 Residue on Ignition	≤0.1%	0.02%
5	含量 Assay	98.0%-101.0%	98.66%
6	氯化物 Chlorides	Not more than 200ppm	Conforms
7	旋光度 Optical Rotation	-15.5°— -17.5°	-16.16°
8	硫酸盐 Sulfates	Not more than 300ppm	Conforms
9	铵盐 Ammonium	Not more than 200ppm	Conforms
10	铁 Iron	Not more than 10ppm	Conforms
11	重金属 Heavy metals	≤10 ppm	Conforms
12	干燥失重 Loss on drying	≤0.5%	0.13%
13	有关物质 Related Substances	Gross Contamination ≤2.0% GSSG ≤1.5%	0.54% 0.22%
Conclusion: the test result is confirmed to the specification and qualified			

储存条件 Storage: 避光密闭保存于阴凉干燥处, 长期保存建议 2-8℃。Cool and dry place, protected from light, keep package airtight when not in use. Please store 2-8℃ for long term storage.

备注 Remarks: 如遇质量问题, 请于收到产品之日起 30 日内与我们联系。In case of any quality issues, please contact us within 30 days after receipt of the product.

Tested By Qing Huo, Audited By Ke Lin, Date: 2018-05-17

YoungShe Chem Quality Control Department