

## 检测报告 CERTIFICATE OF ANALYSIS

产品名称 Product name:	还原型谷胱甘肽 L-Glutathione Reduced		
CAS No.:	70-18-8	参考标准 Ref.Standard:	USP-NF2021
批号 Batch Number:	20251015	生产日期 Manuf. Date:	Oct. 15, 2025
数量 Quantity:	200kg	有效期至 Expiration Date:	Oct. 14, 2028
储存条件 Storage Condition:	保存在密闭的容器中, 室温可控。 Preserve in tight containers at controlled room temperature .		

项目 ITEM	标准 SPECIFICATION	结果 RESULTS
含量 Assay	98.0%~101.0%	99.1%
外观 Appearance	白色结晶或结晶性粉末 White crystal or crystalline powder	符合 Conforms
溶液外观 Appearance of solution	澄清无色 Clear and colorless	符合 Conforms
比旋光度 Specific rotation	-15.5° ~-17.5°	-16.4°
鉴别 Identification	鉴别反应显橙红色 The identification reaction shows an orange-red colour 供试品溶液主峰保留时间与对照品溶液主峰保留时间一致 The retention time of the main peak of the test solution was the same as that of the main peak of the control solution. 红外吸收光谱与对照图谱(光谱集)一致 Infrared absorption spectra are consistent with control maps (spectral sets)	符合 Conforms

### 理化指标 Physical&Chemical Characteristics

干燥失重 Loss on drying	≤0.5%	0.1%
炽灼残渣 Residue on ignition	≤0.1%	0.1%
重金属 Heavy metals	≤10.0ppm	符合 Conforms
砷 Arsenic(As)	≤1.0ppm	符合 Conforms
镉 Cadmium(Cd)	≤0.2ppm	符合 Conforms
铅 Lead(Pb)	≤0.5ppm	符合 Conforms
汞 Mercury(Hg)	≤0.1ppm	符合 Conforms
铁 Iron	≤10.0ppm	符合 Conforms
氯化物 Chlorides	≤200ppm	符合 Conforms
硫酸盐 Sulfate	≤300ppm	符合 Conforms
铵盐 Ammonium	≤200ppm	符合 Conforms

### 相关物质 Related substances

总杂质 Gross contamination	≤2.0%	0.70%
氧化型谷胱甘肽 GSSG	≤1.5%	0.44%

**微生物检测 Microbiological Tests**

菌落总数 Total Plate Count	≤1000cfu/g	符合 Conforms
酵母&霉菌 Yeast & Mold	≤100cfu/g	符合 Conforms
大肠菌群 Total coliforms	≤100cfu/g	符合 Conforms
大肠杆菌 E.Coli	阴性/g Negative/g	阴性 Negative
金黄色葡萄球菌 S.aureus	阴性/25g Negative/25g	阴性 Negative
沙门氏菌 Salmonella	阴性/25g Negative/25g	阴性 Negative
<b>结论 Conclusion:</b>	符合 USP-NF2021 标准 Conform to USP-NF2021 Standard	

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