

Certificate of Analysis

Product Information

Product Name	L-Glutathione Reduced	Report Number	GRP20210928
CAS No.	70-18-8	Manufacture Date	2021/09/03
Inspection Standard	European Pharmacopoeia	Expiry Date	2023/09/02
Batch Number	GRP210903	Batch Quantity	50Kg

<i>Test Items</i>	<i>Specifications</i>	<i>Result</i>
Appearance	White or Almost White Crystalline Powder or Colorless Crystals	Conforms
Identification	S.O.R. : '-15.5°~-17.5° Infrared : Conforms to the Reference Spectrum	-16.6° Conforms
Assay	98.0%~101.0%	99.26%
Related Substances	Impurity A (L-cysteinylglycine): ≤0.5% Impurity B (Cysteine): ≤0.5% Impurity C (L-glutathione oxidised): ≤1.5% Impurity D(L-γ-glutamyl-L-cysteine): ≤1.0% Impurity E(Product of degradation): ≤0.5% Any other impurity: ≤0.2% Total Impurities: ≤2.5%	Conforms Conforms Conforms Conforms Conforms Conforms Conforms
Residue on ignition	≤0.1%	0.02%
Loss on drying	≤0.5%	0.11%
Heavy Metals	≤10ppm	Conforms
Chlorides	≤ 200ppm	Conforms
Sulfates	≤ 300ppm	Conforms
Ammonium	≤ 200ppm	Conforms
Iron	≤10ppm	Conforms
Bacterial Endotoxin	≤ 0.10EU/mg	Conforms

Conclusion

Conclusion	To be complied with European Pharmacopoeia.
Shelf Life	2 years when properly stored.
Storage	Store in cool & dry place, not freeze. Keep away from strong light.

Tested by: 张丽娜

Checker: 李明

Approved:

