

# ASES CHEMICAL WORKS

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## CERTIFICATE OF ANALYSIS

1. Name of the Product	L-GLUTATHIONE REDUCED
2. Synonym	L-Glutathione, Glutinal, Deltathione, Neuthion, Copren, Glutide.
3. Molecular Formula	$C_{10}H_{17}N_3O_6S$
4. Molecular Weight	307.32
5. CAS Number	70-18-8
6. Mfg. Date	As mentioned on Label
7. Date Of Exp	3 Years From MFG
8. Date of Analysis	June - 2024

Test Items	Specification	Results
<b>Description</b>	A White crystalline powder	A White crystalline powder
<b>Melting Point</b>	About 185°C	185.0°C
<b>Identification IR</b>	Similar with the Reference spectrum	Complies
<b>Optical Rotation</b>	-15.5°~-17.5°	-16.4°
<b>Clarity and color of solution</b>	clear and colourless	Clear and Colorless
<b>Heavy Metals</b>	Not more than 10ppm	Complies
<b>Arsenic</b>	Not more than 2ppm	Complies
<b>Related Substances</b>	<b>Total</b>	0.82%
	<b>GSSG</b>	
	Not more than 1.5%	0.40%
<b>Loss on drying</b>	Not more than 0.5%	0.02%
<b>Residue on ignition</b>	Not more than 0.1%	0.03%
<b>Assay</b>	98.0% to 101.0%	99.97%
<b>Bacterial Endotoxin</b>	Not more than 0.10EU/mg	Complies
<b>Conclusion:</b>	It complies with the Standard.	