

Certificate of Analysis (COA)

Product Name: Glutathione (Reduced form, GSH)

Lot No.: 3132018

Sequence: γ -Glu-Cys-Gly

Modifications: No modification (reduced form, free thiol)

Storage Conditions: -20°C, Routine Storage: 2–8°C

Report Date: 15 July 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	307.32 ±1.0 Da	306.3 Da
Purity (HPLC)	≥ 99.0%	99.6%
Retention Time (HPLC)	+0.1-0.2 min of standard	Conforms
Related Substances	Individual impurity ≤0.5%; Total impurities ≤2.0%	Conforms
Solubility	Freely soluble in water	Conforms
Acetic Acid Content	≤ 5000 ppm	650 ppm
TFA Content	≤ 50 ppm	N.D.
DCM Content	≤ 50 ppm	N.D.
DMF Content	≤ 100 ppm	N.D.
Total Aerobic Count	≤100 CFU/g	<10 CFU/g
Yeast & Molds Count	≤10 CFU/g	<10 CFU/g
Endotoxins	≤0.5 EU/mg	<0.05 EU/mg
Heavy Metals	≤10 ppm	<1 ppm

E. coli	Absent	N.D.
Salmonella spp.	Absent	N.D.