



MAPLEWOOD Co.  
7075 E Maplewood Pl  
Centennial, Co 80111

(S-ACETYL) – L – GLUTATHIONE  
CERTIFICATE OF ANALYSIS

Batch Number:	Manufacturing date:	Retest date:
0002000902	JUNE 2020	JUNE 2023
TESTS	SPECIFICATIONS	RESULTS
Appearance	White or almost white crystalline powder	Complies
Identification:	POSITIVE	
- Infrared	Positive	Positive
Related impurities (HPLC)		
- L-glutathione	≤ 1.5%	1,1%
- L-glutathione oxidized	≤ 1.5%	0.6%
- Cysteine	≤ 0.5%	NA
- Any other impurity	≤ 0.2%	0.1%
- Total impurities	≤ 2.5%	2.0%
Impurities:		
- Acetic acid	≤ 0.5%	COMPLIES
Assay (HPLC)	97.0% to 102.0% d.b.	98.8 %
Lead	≤ 0.5 ppm	< 0.01 ppm
Cadmium	≤ 0.5 ppm	< 0.2 ppm
Mercury	≤ 0.1 ppm	< 0.00 ppm
Arsenic	≤ 1.5 ppm	< 0.01 ppm
Sulphated Ash	≤ 0.1%	0.03%
Loss on drying	≤ 1.0 %	0.6%
Residual Solvents (GC):		
- Acetone	≤ 0.1%	0.1%
Bulk density	0.2 – 0.4 g/ml	0.37
Particle size	≥ 95% < 1000 um	99.6%
Microbiological purity:		
- Total viable aerobic count	≤ 10 <sup>3</sup> CFU/g	< 10 CFU/g
- Total combined yeasts and molds	≤ 10 <sup>2</sup> CFU/g	< 10 CFU/g
- E. Coli	Absent/10g	Absent/10g

Date: 2/11/21

Signature: