

CERTIFICATE OF ANALYSIS

Product Name	N-ACETYL-L-CYSTEINE	CAS No.	616-91-1
Batch No.	A010168619A	Mfg. Date	Jan. 08, 2019
Quantity	1000kg	Retest Date	Jan. 07, 2021
Packing	25kg/Drum	Report Date	Jan. 13, 2019
Specification	USP39		

ITEM	SPECIFICATION	RESULT
Appearance	White, crystalline powder, having a slight acetic odor.	Complies
Solubility	Freely soluble in water and in alcohol; practically insoluble in chloroform and in ether.	Complies
Identification	Meets the requirements	Complies
Specific Rotation	+21.3° ~ +27.0°	+25.4°
State of Solution	≥98.0%	98.6%
Melting Point	106~110°C	108.2~108.7°C
Loss on Drying	≤0.5%	0.15%
pH	2.0~2.8	2.2
Chloride(Cl)	≤0.04%	Complies
Ammonium(NH₄)	≤0.02%	Complies
Sulfate(SO₄)	≤0.030%	Complies
Iron(Fe)	≤20ppm	Complies
Heavy Metals(as Pb)	≤10ppm	Complies
-As	≤1ppm	Complies
Residue On Ignition	≤0.20%	0.05%
Assay	98.5%~101.0%	99.2%
Conclusion	Comply with the specification.	
Storage	Preserve in tight containers, protected from strong light and high heat.	

Analyst:

Reviewed by:

Approved by: