

CERTIFICATE OF ANALYSIS

Product Name:	N-Acetyl-L-Cysteine(Acetylcysteine)	Report Date:	Aug07, 2017
Formula:	C ₅ H ₉ NO ₃ S	Batch No.:	170804
CAS No.:	616-91-1	Manu. Date:	Aug 04, 2017
Inspection Standard:	USP38	Exp. Date:	Aug 03, 2019

RESULTS OF ANALYSIS

Test Items	Specifications	Results	Test Methods
Appearance	White crystals or crystalline powder	Conforms	Visual
Identification	Infrared Absorption	Conforms	IR
Specific rotation $[\alpha]_D^{25}$	+21 to +27°	+22.9°	USP-781S
pH	2.0 to 2.8	2.2	USP-791
Loss on drying	Not more than 1.0%	0.07%	USP-731
Residue on ignition(sulfated)	Not more than 0.5%	0.05%	USP-281
Heavy metals (Pb)	Not more than 0.001%(10ppm)	<0.001% (10ppm)	USP-231
Lead	Not more than 3ppm	<3ppm	AFS
Residue solvents	Meets the requirement	Meets the requirement	USP
Assay	98.0 to 102.0 % (Calculated on the dried basis)	99.8%	USP-ASSAY
Particle Size	20Mesh	Meets the requirements	Sieve
Total Plate Count	Not more than 1000cfu/gram	Conforms	CP
Mold & Yeast	Not more than 100cfu/gram	Conforms	CP
Coliforms	Not more than 10cfu/gram	Conforms	CP
E. Coli	Negative	Negative	CP
Salmonella	Negative	Negative	CP
Pseudomonas	Negative	Negative	CP
S. Aureus	Negative	Negative	CP
Conclusion:	Conforms to the specifications of USP38		

Analyst: **侯健之**Auditor: **辽薛兰**Chief of QC: **于铁梅**