

CERTIFICATE OF ANALYSIS

Product	N-Acetyl-L-cysteine		
Batch No.	210319	Packing	25kgs/bag
Quantity	1000kg	Product Date	Mar.19, 2021
Specification	USP39	Expiry Date	Mar.18, 2023
Items & Results			
Item	Spec.	Result	
Appearance	White crystals or crystalline powder	Complies	
Assay	98.0%~102.0%	99.2%	
Identification	Infrared absorption uniformity	Complies	
pH value	2.0 ~ 2.8	2.2	
Specific optical rotation $[a]_D^{20}$	+21°~ +27°	+25.4°	
Melting Point	48.0°C ~ 52.0°C	51.0°C ~ 52.0°C	
Water	≤1.0%	0.15%	
Residue on Ignition	≤0.5%	0.05%	
Heavy Metal	≤0.001	<0.001	
Microbiological Test			
Standard Plate Count	≤1000cfu/g	< 10cfu/g	
Yeast & Mold	≤100cfu/g	< 10cfu/g	
Coliforms	≤3MPN/g	< 3MPN/g	
E. Coli	Negative/10g	Negative	
Salmonella	Negative/25g	Negative	
S.aureus	Negative/25g	Negative	
Content	98%~101%	100.2%	
Conclusion	Complies with the requirements of USP39.		
Storage	Store in tightly closed original container,protected from light,in a dry place at low temperature(≤25°C) 。		
Analyst	马亮	Review	刘爱琴 Supervisor of QC 李敏

