CERTIFICATE OF ANALYSIS

N-ACETYL-L-CYSTEINE (FERMENTATION) USP

Batch	Manufacturer	Manufactured	Expiration	Quantity	
C103-202404407F	CNS89 - 35ERFX	05/04/2024	04/04/2027	1.000 Kg	
CAS No:	616-91-1				
Appearance	White crystals or crystalline powder		С	Conforms	
Soluble	Freely soluble in water and alcohol		С	Conforms	
Insoluble	insoluble in chloride and in ether		С	Conforms	
Identification	Infrared Absorption		С	Conforms	
Assay	98.0 to 102.0% (calculated on the dried basis)		is) 10	100.5%	
Specific rotation [α]D25	+21.0º to +27.0º		+2	+23.3°	
рН	2.0 to 2.8		2.	2.2	
Loss on drying	Not more than 1.0 %		0.	0.10%	
Residue on ignition	Not more than 0.5%		0.	0.05%	
Heavy metals (Pb)	Not more than 0.001%		<(<0.001%	
Lead	Not more than 3ppm		<;	<3ppm	
Arsenic (As2O3)	Not more than 1ppm		<.	<1ppm	
Cadmium	Not more than 1ppm		<	<1ppm	
Mercury (Hg)	Not more than 0.1ppm		<(<0.1ppm	
Residual solvents	Meets the requirements		М	Meet the requirements	
Particle size	Not less than 90% pass 20 Mesh		С	Conforms	
Total plate count	Less than 1000 cfu/g		С	Conforms	
Yeast and Molds	Less than 100 cfu/g		С	Conforms	
Coliforms	Less than 100 cfu/g		С	Conforms	

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E.Coli		Negative	Negative	
Salmonella		Negative	Negative	
Pseudomonas		Negative	Negative	
S.Aureus		Negative	Negative	