

## COA 质量检验报告



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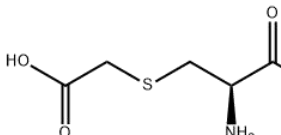
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## CERTIFICATE OF ANALYSIS

<b>Product Name:</b>		Carbocisteine		
<b>Molecular Formula:</b>		C5H9NO4S		
<b>Molecular Weigh:</b>		179.19		
<b>Batch No.:</b>		CF20250112002	<b>CAS No:</b>	638-23-3
<b>Mfg. Date:</b>		2025-01-12		
<b>Date of Report:</b>		2025-01-12	<b>Quantity:</b>	2050.354kg
<b>Expired Date:</b>		2027-01-12	<b>Package:</b>	Bag
<b>Item</b>		<b>Specifications</b>		<b>Results</b>
<b>Characters</b>		A white or almost white,crystalline powder,practically in soluble in water and in alcohol.It dissolves in dilute miner al acids and in dilute solutions of alkali hydroxides		Conforms
<b>Identification</b>	<b>Test A (Specific Optical rotation)</b>	It complies with the test for specific optical rotation.		Conforms
	<b>Test C(IR)</b>	It complies with the spectrum obtained with carbocisteine CRS.		Identical
<b>Appearance of solution</b>		Clear and colourless		Clear and colourless
<b>pH</b>		2.8 to 3.0		2.8
<b>Specific optical rotation <math>^{20}_D[\alpha]_D^{20}</math></b>		-32.5° to-35.5°		-34.4°
<b>Related substances</b>		Impurity A(L-Cystine)	≤0.5%	0.12%
		Impurity B(Chloroacetic acid)	≤0.05%	0.01%
		Impurity C	≤0.05%	0.02%

<b>Related substances</b>	Impurity D	≤0.2%	0.15%
	Any other impurity	≤0.05%	<0.03%
	Total Impuritie other than A and B	≤0.4%	0.17%
<b>Chlorides</b>	≤0.15%		<0.10%
<b>Sulfates</b>	≤300ppm		<300ppm
<b>Loss on drying</b>	≤0.5%		0.1%
<b>Sulfated ash</b>	≤0.3%		0.08%
<b>Assay</b>	98.5 to 101.0%(dried substance)		99.6%
<b>Conclusion</b>	Comply with the specification of CEP 2022-121-Rev 01		

