

# CERTIFICATE OF ANALYSIS

Product Name: Carbocysteine  
CAS No.: 638-23-3  
Quantity: Samples  
Batch No.: CB100628  
Manufacture Date: Jun. 28, 2010  
Expiry Date: Jun. 28, 2012

Items	Limits	Results
Appearance	Almost white crystalline powder or small flakes	Conforms
State of solution	Clear and colorless	Conforms
pH	2.8~3.0	2.90
Specific rotation	-32.5~-35.5°	-33.41°
Ninhydrin-positive substances	Not more intense than the spot with reference solution (0.5%)	Conforms
Chloride	≤ 0.15%	< 0.15%
Sulfate	≤ 300ppm	< 300ppm
Heavy metals	≤ 10ppm	< 10ppm
Loss on drying	≤ 0.50%	0.28%
Sulphated ash	≤ 0.30%	0.10%
Assay	98.5~101.0%	99.65%
Conclusion: The Product Conforms to EP5		

Store in tight containers at controlled room temperature

Analysis Date: Jun. 29, 2010

Inspector: Carlifor Wu

Verifier: Jack He