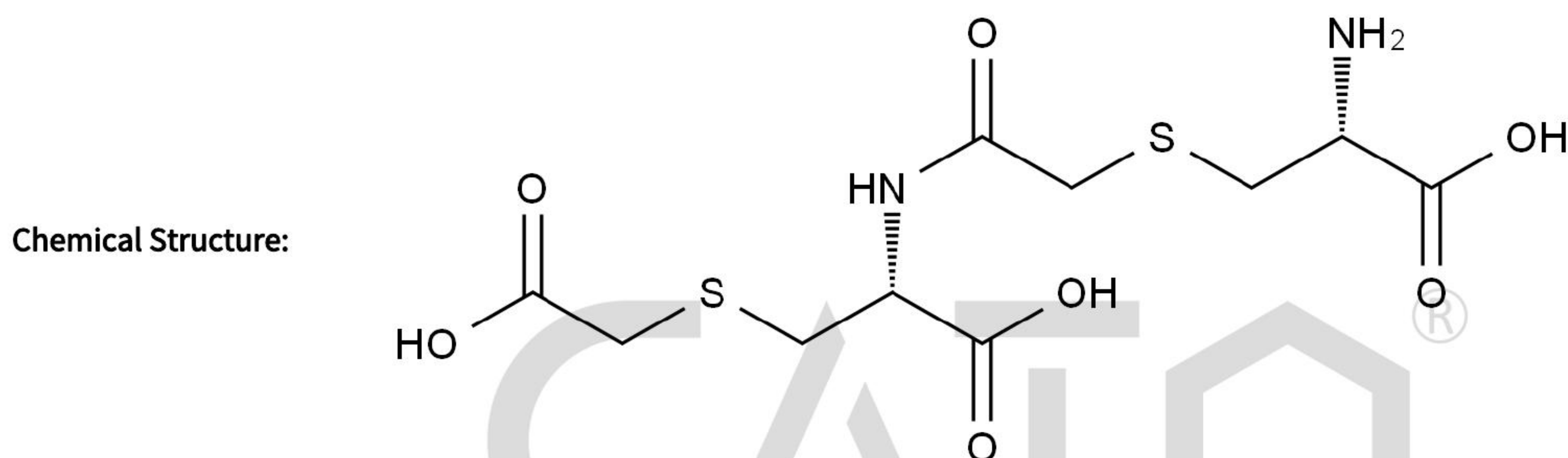


Certificate of Analysis

Reference Material & Standard

Product Name:	Carbocysteine Impurity 14	Catalogue Number:	C4X-201014
Synonyms:	N/A	Lot Number:	0909-RF-0011
CAS Number:	N/A	Expiry Date:	Aug 29, 2027
Molecular Formula:	C10H16N2O7S2	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	340.37		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.7%
Optical Rotation		$[\alpha]_{D25.0}(c=0.61, H_2O)$: -33.4°
Assay	qNMR	91.1%

Comment:

Assay was determined by quantitative ¹H-NMR.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Sep 10, 2024

Date: Sep 11, 2024

Date: Sep 11, 2024

