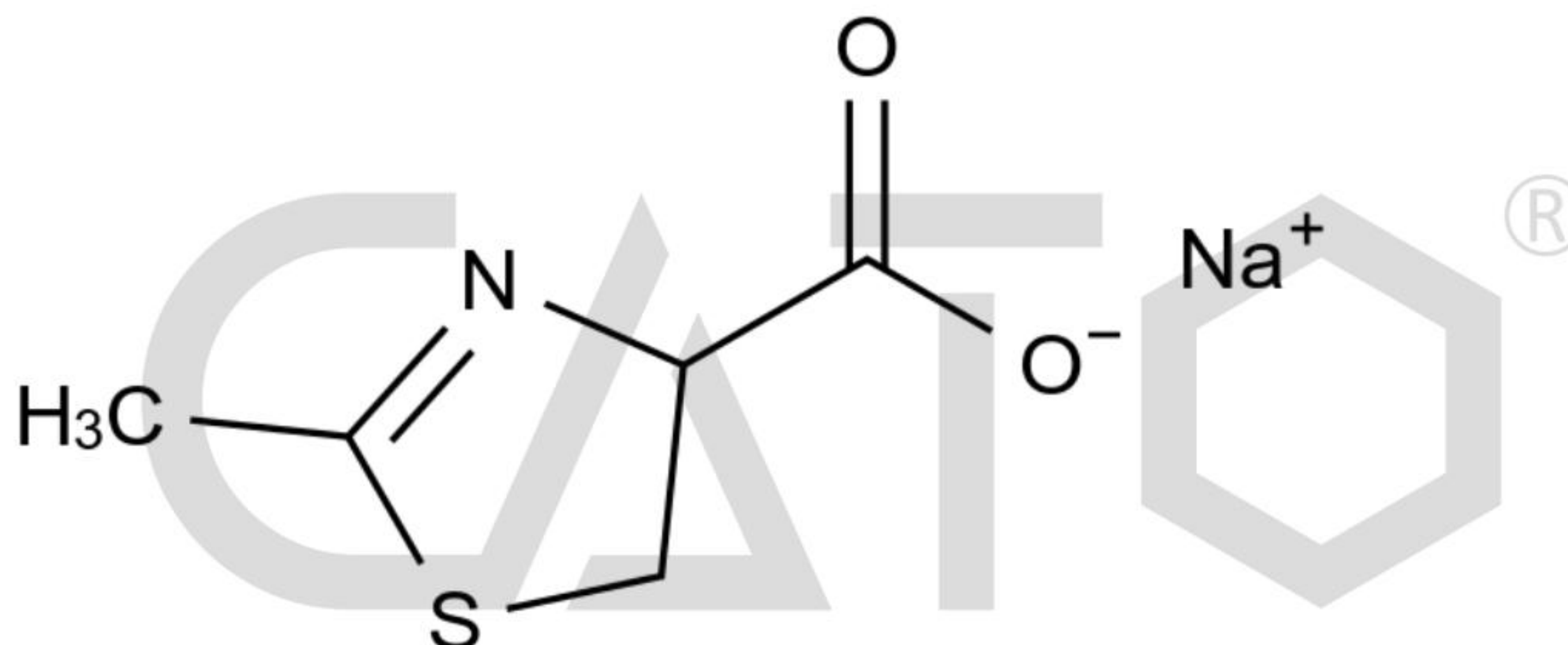


Certificate of Analysis

Reference Material & Standard

Product Name:	Acetylcysteine Impurity 33	Catalogue Number:	C4X-153233
Synonyms:	2-Methyl-2-Thiazoline-4-Carboxylic Acid Sodium Salt	Lot Number:	0304-RH-0007
CAS Number:	15058-19-2	Expiry Date:	Mar 08, 2028
Molecular Formula:	C ₅ H ₆ NO ₂ S Na	Storage:	-20°C ± 5°C Protected from light and Sealed
Molecular Weight:	144.17 22.99	Shipping Condition:	Shipping with Ice Packs
Solubility:	Water	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.803%
Loss on Drying	TGA	0.1210%
Assay		99.7%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss on Drying) * Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 04, 2026

Date: Aug 04, 2026

Date: Aug 04, 2026



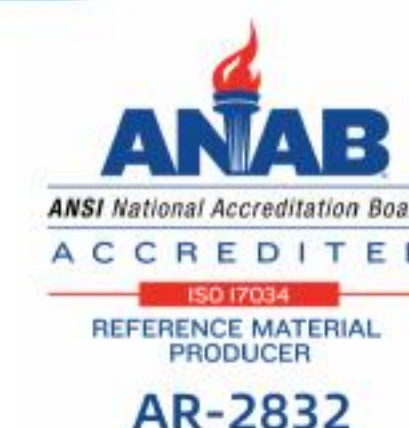
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