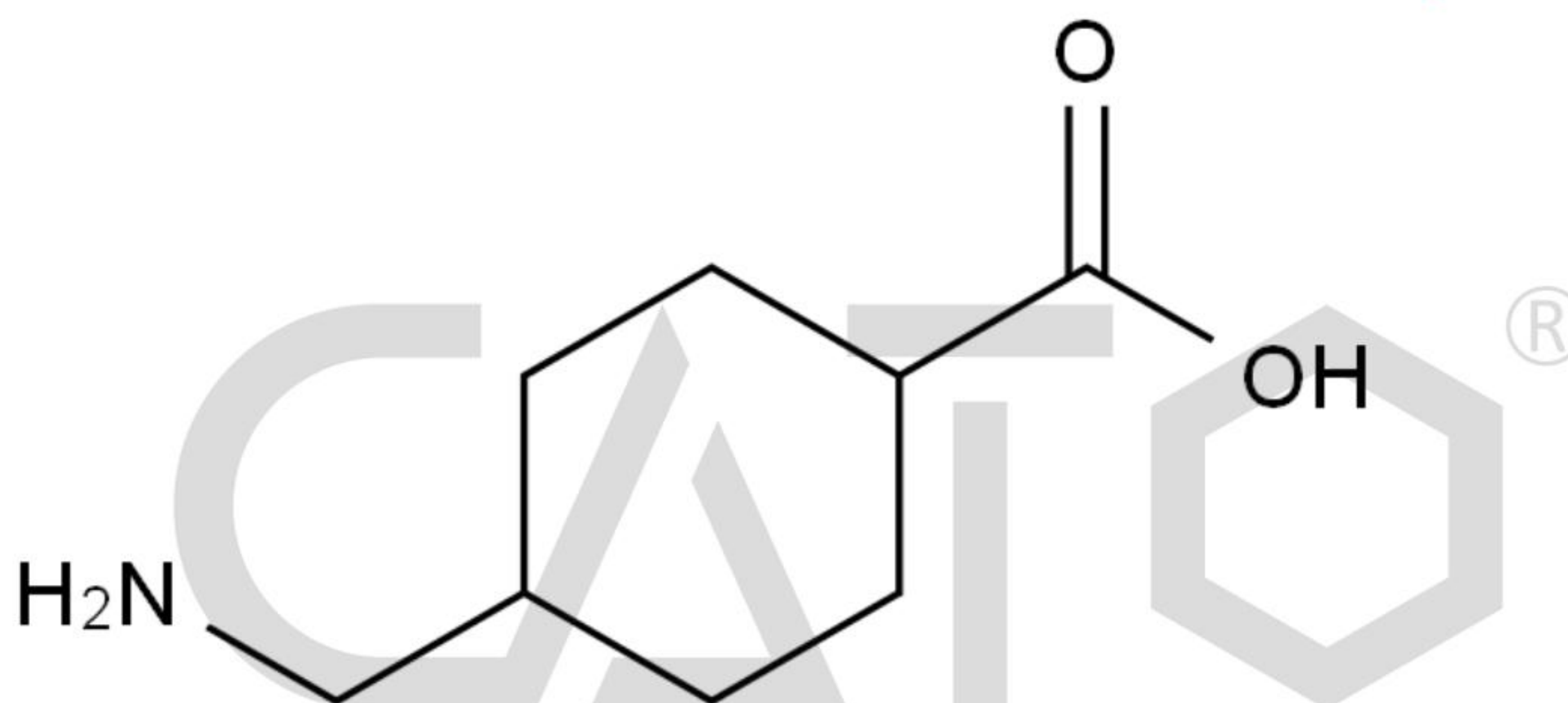


Certificate of Analysis

Reference Material & Standard

Product Name:	4-(Aminomethyl)cyclohexanecarboxylic Acid (cis- and trans- mixture)	Catalogue Number:	CCHM701648
Synonyms:	N/A	Lot Number:	0301-RF-0002
CAS Number:	701-54-2	Expiry Date:	Feb 28, 2028
Molecular Formula:	C ₈ H ₁₅ NO ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	157.21	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.9%
Assay	qNMR	96.8%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Feb 29, 2024

Date: Mar 01, 2024

Date: Mar 01, 2024

