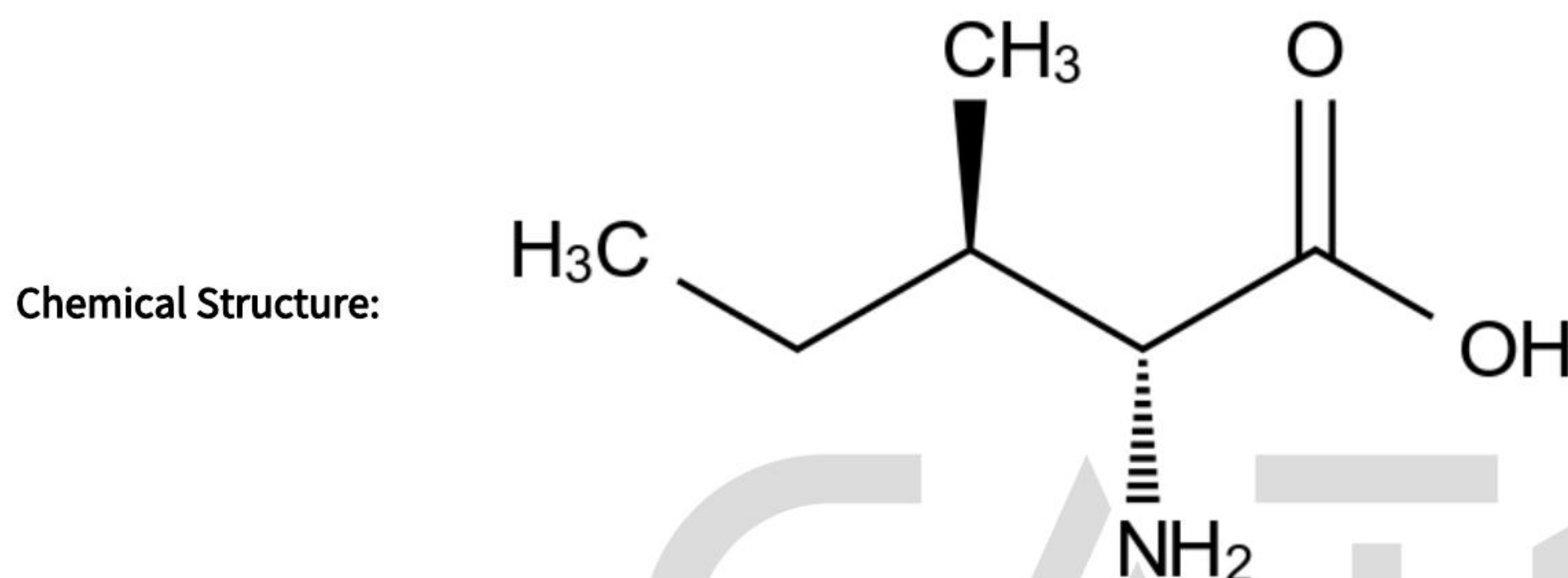


Certificate of Analysis

Reference Material

Product Name:	D-Isoleucine	Catalogue Number:	CCFD200334
Chemical Name:	N/A	Lot Number:	1110-RD-0012
CAS Number:	319-78-8	Expiry Date:	Nov 16, 2026
Molecular Formula:	C ₆ H ₁₃ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	131.17		



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	0.0678%
Assay		99.9%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content) * Purity ELSD (%) / 100%

Water Content is considered as absolute effect, ELSD purity is considered as relative effect.

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:

Debia

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Nov 17, 2022

Date: Nov 18, 2022

Date: Nov 18, 2022

