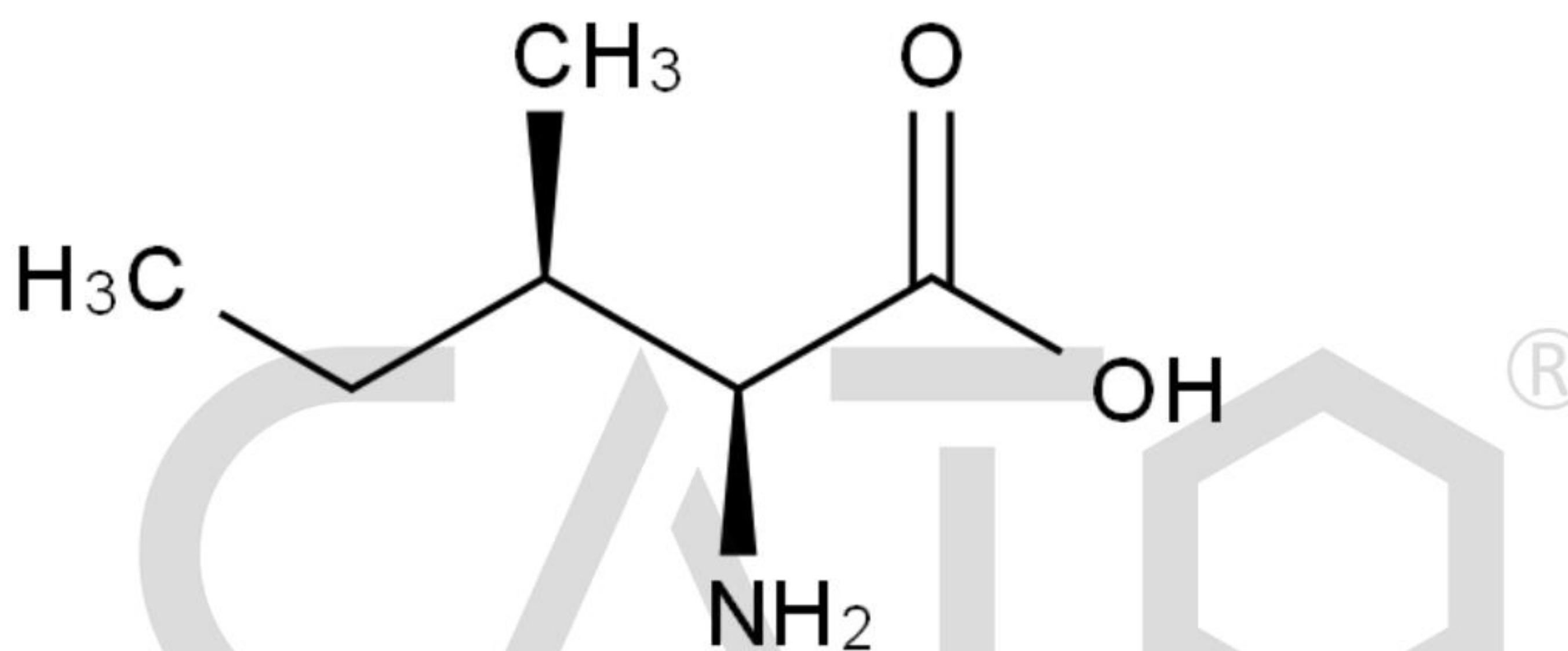


Certificate of Analysis

Reference Material & Standard

Product Name:	L-Allo-isoleucine	Catalogue Number:	CCFD200839
Synonyms:	N/A	Lot Number:	0916-RH-0073
CAS Number:	1509-34-8	Expiry Date:	Sep 17, 2030
Molecular Formula:	C ₆ H ₁₃ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	131.17	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.179%
Loss on Drying	TGA	0.0373%
Assay		99.1%
Uncertainty		±0.3%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity ELSD (\%)} / 100\%$$

Loss on Drying is considered as absolute effect, ELSD purity is considered as relative effect.
- 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:

Hin Lam

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 18, 2026

Date: Sep 18, 2026

Date: Sep 18, 2026

