

## Certificate of Analysis.

### D-Isoleucine reference standard, Anstan<sup>®</sup>.

Product code:	<b>BS13970.</b>
Description:	<b>D-Isoleucine reference standard, Anstan<sup>®</sup>.</b>
Chemical Name:	<b>(2R,3R)-2-Amino-3-methylpentanoic Acid; (R)-Isoleucine.</b>
Pack:	<b>100 mg.</b>
CAS NO.:	<b>319-78-8.</b>
Mol. Weight:	<b>131.17g/mol.</b>
Mol. Formula:	<b>C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>.</b>
MDL Number:	<b>MFCD00064221.</b>
Melting point:	<b>273 °C.</b>
Boiling Point:	<b>225.8 °C.</b>
Density:	<b>1.1720 g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in water.</b>
Storage:	<b>Store at ambient temperature.</b>
LOT NO.:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>5 years.</b>

Test	Specification	Measured Values
Appearance:	White to Off-White Solid.	<b>Lot specific.</b>
Specific Rotation ( $\alpha$ ):	-38 to -42 ° (c=5 in 5N HCl).	<b>Lot specific.</b>
Identification by NMR:	Confirms to the structure.	<b>Lot specific.</b>
Identification by MASS:	Confirms to the structure.	<b>Lot specific.</b>
Identification by IR:	Confirms to the structure.	<b>Lot specific.</b>
TGA:	<1 %.	<b>Lot specific.</b>

Note: - This material is only for laboratory purpose and not for human consumption.

#### **Certification & Traceability:**

This product was manufactured, processed and/or certified under a quality management system that is accredited **ISO 17034:2016 and ISO/IEC 17025:2017.**

The balances used in the preparation of this product are calibrated regularly, using a calibration provider that is accredited to **ISO/IEC 17025.** All standard components used in the manufacture of this product are pre-qualified and verified before use.

Tests were performed for capacity, readability, repeatability and linearity. This product is manufactured, packaged, stored, and shipped in accordance with good manufacturing



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practices that is certified to **WHO-GMP**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of **k=2**.

**Validity Period:**

Briti Scientific standards ensures the accuracy of this product for 5 years from the manufacture date given above, provided the instructions for use are followed.

**Quality Certifications:**

This product was prepared under a quality management system that is accredited to the following:

**ISO 17034:2016** Accredited: Reference Materials Producer, CGI Certificate No. WGMP/22N2594 – General Requirements for the Competence of Reference Material Producers.

**ISO 17034** references additional requirements specified in ISO Guide 31 and ISO Guide 35.

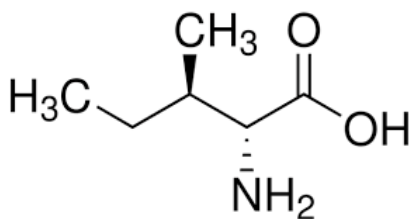
**ISO/IEC 17025:2017** Accredited: Chemical Testing, CGI Certificate No. UG/23N256- General Requirements for the Competence of Testing and Calibration Laboratories.

**ISO 9001:2015** Certified: Quality Management Systems, CGI Certificate No. QMS/23N258.

**WHO-GMP** Certified: Good Manufacturing Practices, CGI Certificate No. WGMP/22N2594.

**Health and Safety Information:**

Refer to the Safety Data Sheet (SDS), which can be obtained at [www.britisscientific.com](http://www.britisscientific.com).



**Dr. K. Deepti.**  
**Technical Head.**

