

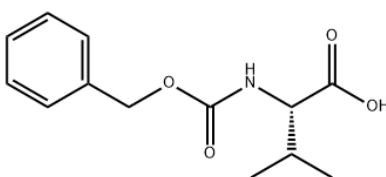


## Certificate of Analysis.

### Z-L- Valine Reference Standard, AnStan®.

Product Code:	<b>BS13821.</b>
Description:	<b>Z-L- Valine Reference Standard, AnStan®.</b>
Chemical Name:	<b>N-Benzyloxycarbonyl-L-valine.</b>
Pack:	<b>5 gm.</b>
CAS No.:	<b>1149-26-4.</b>
Mol. Weight:	<b>251.28 g/mol.</b>
Mol. Formula:	<b>C<sub>13</sub>H<sub>17</sub>NO<sub>4</sub>.</b>
MDL Number:	<b>MFCD00008922.</b>
Melting Point:	<b>60 °C.</b>
Boiling point:	<b>394.43°C.</b>
Density:	<b>1.2 g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in methanol.</b>
Storage:	<b>Store at 2-8°C for long term storage.</b>
LOT NO.:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>5 years.</b>

Characteristics	Specification	Measured Values
Appearance:	White to Almost white powder to crystal.	<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>
Purity by HPLC:	>99%.	<b>Lot specific.</b>




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

