

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-23 11:18:10
 Date of Next Testing: 2028-01-22 11:18:10
 Product Name: **L-Valine benzyl ester p-toluenesulfonate salt**
 CAS Number: 16652-76-9
 Specifications & Purity: $\geq 98\%$
 Lot #: A2415616
 SKU #: **V105481**
 Version: **0**
 Analysis #: **297991**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=3.2 \text{ in MeOH})$	-4.1~-3.5 (°)	-3.74600 °
Melting point	159-162 (°C)	159.27000 °C
Purity(HPLC)	98-100 (%)	99.53400 %
Appearance (V105481)	Colorless or White Powder	Colorless or White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager