

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-07 11:23:04
 Date of Next Testing: 2027-07-06 11:23:04
 Product Name: **L-Valine benzyl ester p-toluenesulfonate salt**
 CAS Number: 16652-76-9
 Specifications & Purity: $\geq 98\%$
 Lot #: K1520050
 SKU #: **V105481**
 Version: **0**
 Analysis #: **248313**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=3.2 \text{ in MeOH})$	-4.1~-3.5 (°)	-3.87000 °
Melting point	159-162 (°C)	161.96000 °C
Purity(HPLC)	98-100 (%)	98.18200 %
Appearance (V105481)	Colorless or White Powder	Colorless or White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager