

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-02-08 10:30:00

Date of Next Testing: 2027-02-08 10:30:00

Product Name: **D-Valine Benzyl Ester p-Toluenesulfonate**

CAS Number: 17662-84-9

Specifications & Purity: $\geq 98\%$

Lot #: D2321204

SKU #: **S135773**

Version: **0**

Analysis #: **468000**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=3.2 \text{ in MeOH})$	2-5 (°)	3.34 °
Melting point	160-164 (°C)	160.50000 °C
Purity(Neutralization titration)	97.5-102.5 (%)	101.30 %
Purity(HPLC)	98-100 (%)	99.50000 %
Appearance (S135773)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager