

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-02 19:27:47
 Date of Next Testing: 2027-03-01 19:27:47
 Product Name: **D-Alanine benzyl ester p-toluenesulfonate salt**
 CAS Number: 41036-32-2
 Specifications & Purity: $\geq 98\%$
 Lot #: B2328317
 SKU #: **A117193**
 Version: **0**
 Analysis #: **194100**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=3 \text{ in MeOH})$	3.5-6.5 (°)	5.36000 °
Melting point	113-116 (°C)	114.57000 °C
Purity(HPLC)	98-100 (%)	99.34000 %
Appearance (A117193)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH	pass	Pass



John Su
QA & QC Manager