

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-28 19:00:44
 Date of Next Testing: 2029-05-27 19:00:44
 Product Name: **D-Norvaline**
 CAS Number: 2013-12-9
 Specifications & Purity: $\geq 99\%$
 Lot #: E2523019
 SKU #: **N106191**
 Version: **0**
 Analysis #: **143468**
 Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)	98.5-101.5 (%)	99.17000 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in } 5M \text{ HCL})$	-26--20 ($^{\circ}$)	-21.67200 $^{\circ}$
Enantiometric Excess	98-100 (%)	98.50000 %
Appearance (N106191)	White Powder, Crystals, Granules and/or Lumps	White Powder, Crystals, Granules and/or Lumps
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager