

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-13 10:53:48  
Date of Next Testing: 2028-03-12 10:53:48  
Product Name: **N $\alpha$ -p-Tosyl-L-arginine methyl ester hydrochloride**  
CAS Number: 1784-03-8  
Specifications & Purity: 98%  
Lot #: G1604030  
SKU #: **T105948**  
**Analysis:** **329742**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Melting point	146-150 (°C)	146.80000 °C
Purity(HPLC)	98-100 (%)	99.00000 %
Specific Rotation [a] <sub>D</sub> <sup>20</sup> (c=4 in H <sub>2</sub> O)	-15--13 (°)	-13.80 °
Carbon by Elemental Analysis	43.3-45.5 (%)	43.60 %
Nitrogen by Elemental Analysis	14.4-15.3 (%)	14.90 %
Appearance (T105948)	white powder or crystals	White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager