

## Certificate of Analysis

Date of Testing: 2023-04-23 13:12:04  
Date of Next Testing: 2027-04-22 13:12:04  
Product Name: **L-Leucine benzyl ester p-toluenesulfonate salt**  
CAS Number: 1738-77-8  
Specifications & Purity: 98%  
Lot #: D2318163  
SKU #: **L113139**  
Analysis: **118700**

Parameter	Limit Values	Result
Melting point	156-160 (°C)	157.68000 °C
Purity(HPLC)	98-100 (%)	98.01000 %
Specific Rotation [α] <sub>20</sub> /D(c=2 in DMF)	3-6 (°)	4.85°
Appearance (L113139)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager