

## Certificate of Analysis

Date of Testing: 2022-10-27 14:44:12  
Date of Next Testing: 2026-10-26 14:44:12  
Product Name: **L-Tyrosine benzyl ester p-toluenesulfonate salt**  
CAS Number: 53587-11-4  
Specifications & Purity: 98%  
Lot #: J2226070  
SKU #: **T111761**  
**Analysis: 149050**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in MeOH)	-15--12 (°)	-12.70°
Melting point	175-180 (°C)	178.53000 °C
Purity(HPLC)	98-100 (%)	98.19600%
Purity(Neutralization titration)	98-100 (%)	98.10%
Appearance (T111761)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH , Colorless,Clear to Hazy ,50 mg/ml of EtOH	pass	Pass



John Su  
QA & QC Manager