

## Certificate of Analysis

Date of Testing: 2023-09-13 09:52:31  
Date of Next Testing: 2027-09-12 09:52:31  
Product Name: **L-Tyrosine benzyl ester p-toluenesulfonate salt**  
CAS Number: 53587-11-4  
Specifications & Purity: 98%  
Lot #: I2311327  
SKU #: **T111761**  
**Analysis: 253910**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in MeOH)	-15--12 (°)	-14.59°
Melting point	175-180 (°C)	179.87000 °C
Purity(HPLC)	98-100 (%)	99.25300 %
Appearance (T111761)	White to Almost white powder to crystal	White to Almost white powder to crystal
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager