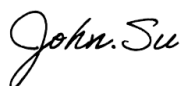


Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2024-08-19 10:16:07
Date of Next Testing: 2028-08-18 10:16:07
Product Name: (±)-Metoprolol (+)-tartrate salt
CAS Number: 56392-17-7
Specifications & Purity: 98%
Lot #: J2019062
SKU #: M111945
Version: 0
Analysis #: 400544

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.05300 %
Appearance (M111945)	White to Off-White Powder or Chunks	White to Off-White Powder or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , soluble50 mg/mL	pass	Pass



John Su
QA & QC Manager