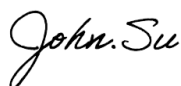


Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2022-05-10 15:10:47
Date of Next Testing: 2026-05-09 15:10:47
Product Name: **Ethyl thiophene-3-carboxylate**
CAS Number: 5751-80-4
Specifications & Purity: 98%
Lot #: G1409043
SKU #: **E123056**
Analysis: **087652**

Parameter	Limit Values	Result
Purity(GC)	98-100%	98.99100 %
Refractive index n ₂₀ /D	1.522-1.523	1.52210
Appearance (E123056)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager