

Certificate of Analysis

Date of Testing: 2024-12-09 16:50:16

Date of Next Testing: 2027-12-09 16:50:16

Product Name: **ATTO 647**

CAS Number: A665026

Specifications & Purity:

Lot #: L2404185

SKU #: **A665026**

Version **1**

Analysis #: **376737**

Storage Temperature: Protected from light,Store at -20°C,Desiccated

Parameter	Limit Values	Result
Absorption maximum(in ethanol with 0.1% trifluoroacetic acid)	646-652 (nm)	649.00000 nm
Purity(HPLC-254 nm)	>90 (%)	91.00000 %
Purity(HPLC-647 nm)	>90 (%)	93.00000 %
Coupling efficiency with benzylamine(HPLC-647nm)	>90 (%)	92.00000 %
Appearance(Blue powder)	Pass	Pass



John Su
QA & QC Manager