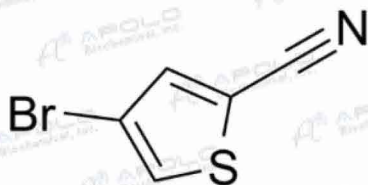


CERTIFICATE OF ANALYSIS

Product Name: 4-Bromothiophene-2-carbonitrile

Chemical Structure:



Lot Number: CS00538991101101

CAT Number: APL-WCPB-0018791

CAS Registry Number: 18791-99-6

Manufacture Date: 11/2021

Expiry Date: 11/2024

Molecular Formula: C₅H₂BrNS

Molecular Weight: 188.05

Storage: -20°C

Analysis Data

Item	Specification	Results
Appearance	Color: Light Yellow to yellow Form: Solid	Complies Complies
¹ H NMR Spectrum	Consistent with structure	Complies
LCMS	Consistent with structure	Complies
Purity (LCMS)	> 99.0 %	99.41 %

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Jen LaBrecque

Jennifer LaBrecque 11/2021
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO