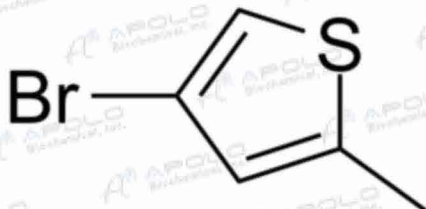


CERTIFICATE OF ANALYSIS

Product Name: 4-Bromo-2-methylthiophene

Chemical Structure:



Lot Number: 205072CSW003194
CAT Number: APL-2942192
CAS Registry Number: 29421-92-9
Manufacture Date: 05/2022
Expiry Date: 05/2024
Molecular Formula: C₅H₅BrS
Molecular Weight: 177.06
Storage: 2-8°C, protect from light

Analysis Data

Item	Specification	Results
Appearance	Colorless to light yellow (Liquid)	Conforms
1 H NMR Spectrum	Consistent with the structure	Conforms
Purity (GC)	≥ 99.00 %	99.03 %

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



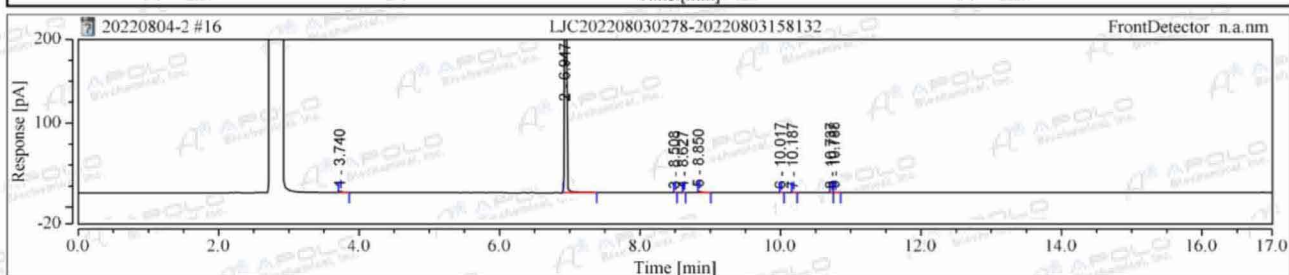
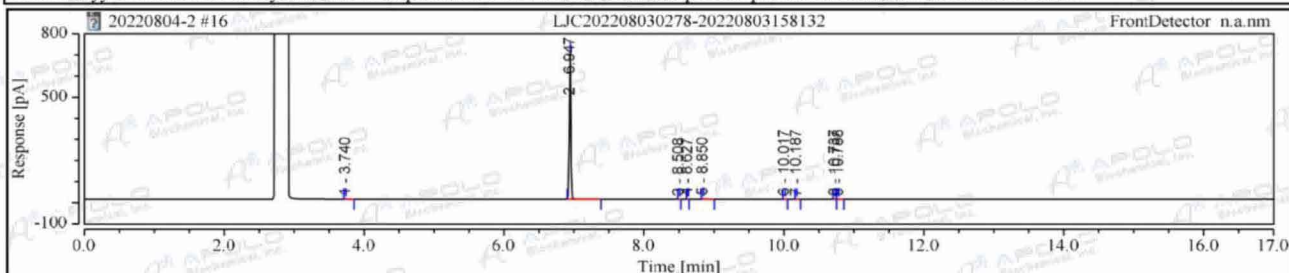
Jennifer LaBrecque 05/2022
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO

Chromatogram and Results

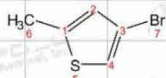
CAS NO.: 29421-92-9
Batch No: 1028583
Vial Number: 16
Injection Type: Unknown
Instrument: GC10402
Instrument Method: GC-FQ
Processing Method: PM-LJC202208030278-20220803158132
seq.creation_operator: Myangby
chrom://ahyy-cm7/CM7DATA/Leyan/GC10402/Sequence/2022/202208/20220804-2.seq/810.smp/FrontDetector.channel/FrontDetector.chm

Comment: AH-GC003
Channel: FrontDetector
Wavelength: n.a.
Injection Volume: 1.00
Injection Time: 04/08/2022 20:45
InstMeth.creation_t: 11/05/2020 11:09
Last update_time: 05/08/2022 12:49



No.	Retention Time min	Area pA*min	Height pA	Plates (USP)	Resolution (USP)	Asymmetry (USP)	Rel.Area %	Peak Name
1	3.740	0.064	2.202	107148	75.25	1.23	0.376	
2	6.947	16.825	691.931	494296	34.05	0.77	99.037	
3	8.508	0.001	0.056	425088	2.89	0.90	0.008	
4	8.627	0.002	0.099	1350022	6.11	0.92	0.011	
5	8.850	0.074	2.008	663507	27.43	2.78	0.438	
6	10.017	0.002	0.083	926874	4.26	1.12	0.013	
7	10.187	0.010	0.389	1135575	0.22	1.49	0.060	
8	10.737	0.002	0.071	76	0.02	n.a.	0.013	
9	10.788	0.008	0.143	294065	n.a.	n.a.	0.045	
Total:		16.988	696.981		150.23			

CAS NO. : 29421-92-9, CDCl₃



¹H NMR (400 MHz, Chloroform-d) δ 6.97 (d, *J* = 1.5 Hz, 1H), 6.74~6.63 (m, 1H), 2.46 (d, *J* = 1.2 Hz, 3H).

