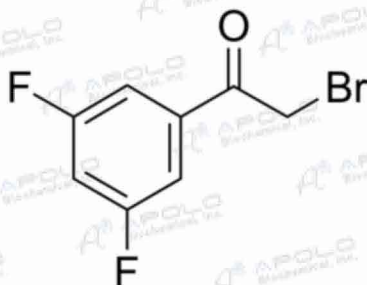


CERTIFICATE OF ANALYSIS

Product Name: 2-Bromo-1-(3,5-difluorophenyl)ethanone

Chemical Structure:



Lot Number: 262688CSM0153

CAT Number: APL-2206077

CAS Registry Number: 220607-75-0

Manufacture Date: 03/2023

Expiry Date: 03/2025

Molecular Formula: C₈H₅BrF₂O

Molecular Weight: 235.03

Storage: 2-8°C

Analysis Data

Item	Specification	Results
Appearance	Colorless to yellow (Liquid)	Conforms
¹ H NMR Spectrum	Consistent with the structure	Conforms
Purity (HPLC)	≥ 98.00 %	98.74 %

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



Jennifer LaBrecque 04/2023
Quality Assurance Manager

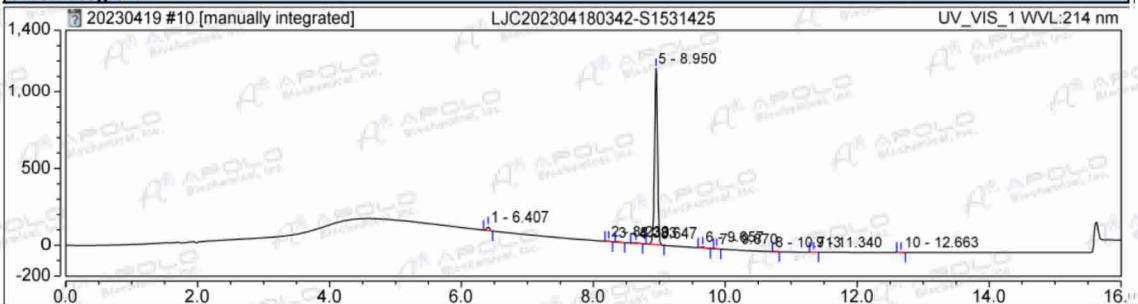
Conclusion: The above product meets the specifications of APOLO

Chromatogram and Results

Injection Details

Injection Name:	LJC202304180342-S1531425	Run Time (min):	16.00
Vial Number:	BA5	Injection Volume:	1.50
Injection Type:	Unknown	Channel:	UV_VIS_2
CAS NO.:	220607-75-0 A-RP-1059-1	Wavelength:	254
Instrument Method:	10-90A_1-2 A C	Bandwidth:	4
Processing Method:	3D Quantitative-1	Dilution Factor:	1.0000
Injection Date/Time:	19/Apr/23 12:32	Sample Weight:	1.0000
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InstMeth.creation_operator	ZW3171	rdf.update_operator	ZW3171

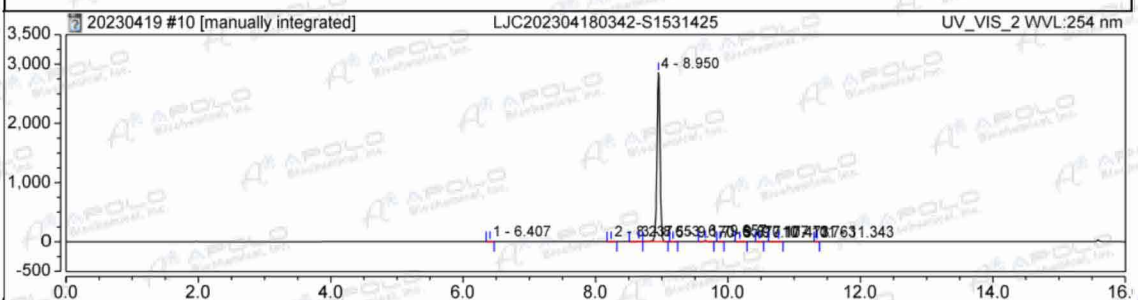
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	3
1		6.407	1.171	25.055	1.90	2.11	n.a.
2		8.230	0.111	2.193	0.18	0.18	n.a.
4		8.647	0.125	2.441	0.20	0.21	n.a.
5		8.950	59.373	1146.823	96.54	96.61	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		9.657	0.423	7.075	0.69	0.60	n.a.
7		9.870	0.071	1.364	0.12	0.11	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		10.713	0.025	0.000	0.04	0.00	n.a.
9		11.340	0.079	1.363	0.13	0.11	n.a.

Total: 61.378 1186.313 99.80 99.93



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount
UV_VIS 2	UV_VIS 2	UV_VIS 2	UV_VIS 2	UV_VIS 2	UV_VIS 2	UV_VIS 2	UV_VIS 2
1		6.407	0.197	4.268	0.13	0.15	n.a.
2		8.237	0.138	2.741	0.09	0.09	n.a.
3		8.653	0.419	5.000	0.27	0.17	n.a.
4		8.950	153.358	2854.086	98.74	98.85	n.a.
5		9.170	0.059	1.044	0.04	0.04	n.a.
6		9.657	0.983	17.340	0.63	0.60	n.a.
7		9.877	0.025	0.536	0.02	0.02	n.a.
8		10.177	0.028	0.445	0.02	0.02	n.a.
9		10.473	0.018	0.353	0.01	0.01	n.a.
10		10.763	0.077	1.101	0.05	0.04	n.a.
11		11.343	0.015	0.335	0.01	0.01	n.a.

