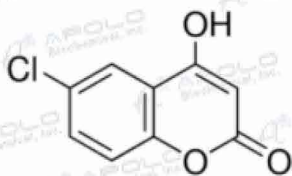


CERTIFICATE OF ANALYSIS

Product Name: 6-Chloro-4-hydroxy-2H-chromen-2-one

Chemical Structure:



Lot Number: CS00737421110119

CAT Number: APL-WCPC-0019484

CAS Registry Number: 19484-57-2

Manufacture Date: 11/2021

Expiry Date: 11/2024

Molecular Formula: C₉H₅ClO₃

Molecular Weight: 196.5872

Storage: 2-8°C

Analysis Data

Item	Specification	Results
Appearance	Off white powder	Conforms
Purity	≥ 99.00 %	99.45 %
¹ H-NMR Spectrum	Consistent with the structure	Conforms

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



Jennifer LaBrecque 11/2021
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO

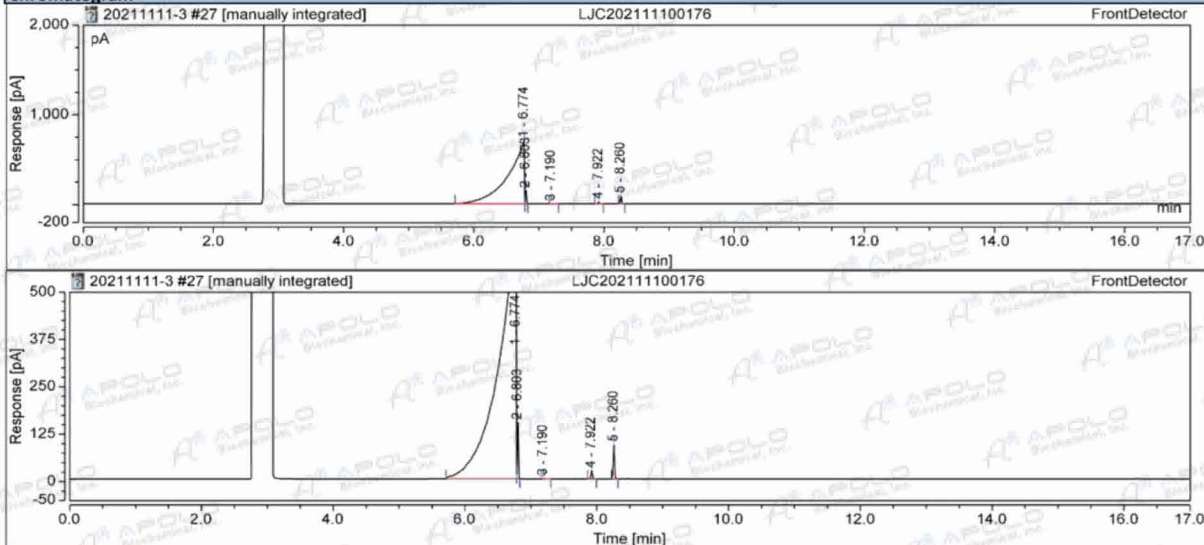
Instrument:GC-07 Sequence:20211111-3

Chromatogram and Results

Injection Details

Injection Name:	LJC202111100176	Run Time (min):	17.00
Vial Number:	53	Injection Volume:	1.00
Injection Type:	Unknown	Channel:	FrontDetector
CAS NO.:	5239-82-7 (BY ACN) HP-5 A-CP-78	Wavelength:	n.a.
Instrument Method:	GC-FQ	Bandwidth:	n.a.
Processing Method:	Quantitative	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/21 02:50	seq.update_operator	chd2232
seq.creation_operator	sdj2468	instMeth.creation_operator	ylq1768
procMeth.update_operator	chd2232	rdf.update_operator	chd2232
instMeth.creation_time	30/Jun/2020 10:13		
chm.rawpath	chrom://thermo-svr2/QR_Data/1-RND/GC-07/Sequence/2021/2021111/20211111-3.seq/420.smp/FrontDetector.channel/FrontDetector.chm		

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area pA*s	Height pA	Relative Area %	Resolution (USP)	Plates	Tailing
1		6.774	11907.0648	710.126	97.7633	n.a.	7701	0.51
2		6.803	117.5489	148.279	0.9651	0.17	1548466	n.a.
3		7.190	2.3034	1.635	0.0189	15.39	1018717	2.38
4		7.922	28.7354	22.354	0.2359	23.69	906347	1.12
5		8.260	123.8303	90.617	1.0167	9.76	839258	0.97
Total:			12179.4827	973.010	100.0000		4320489	

11/15/2021 4:15 PM

CAS No.: 5239 82 7 DMSO



¹H NMR (400 MHz, DMSO-d₆) δ 11.97 (s, 1H), 2.12 (dd, *J* = 7.2, 1.5 Hz, 2H), 1.00 – 0.83 (m, 1H), 0.53 – 0.38 (m, 2H), 0.19 – 0.04 (m, 2H).

