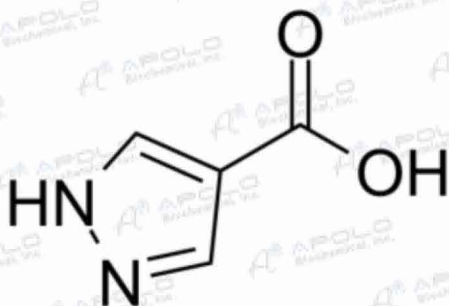


CERTIFICATE OF ANALYSIS

Product Name: 4-Carboxypyrazole

Chemical Structure:



Lot Number: 250708CSW002065
CAT Number: APL-3771811
CAS Registry Number: 37718-11-9
Manufacture Date: 01/2023
Expiry Date: 01/2026
Molecular Formula: C₄H₄N₂O₂
Molecular Weight: 112.09
Storage: 2-8°C
Solubility: DMSO : 100 mg/mL
(892.14 mM; ultrasonic)

Analysis Data

Item	Specification	Results
Appearance	White to off-white (Solid)	Conforms
Purity (HPLC)	≥ 99.00 %	99.57 %
Water (KF)	≥ 1.00 %	0.47 %

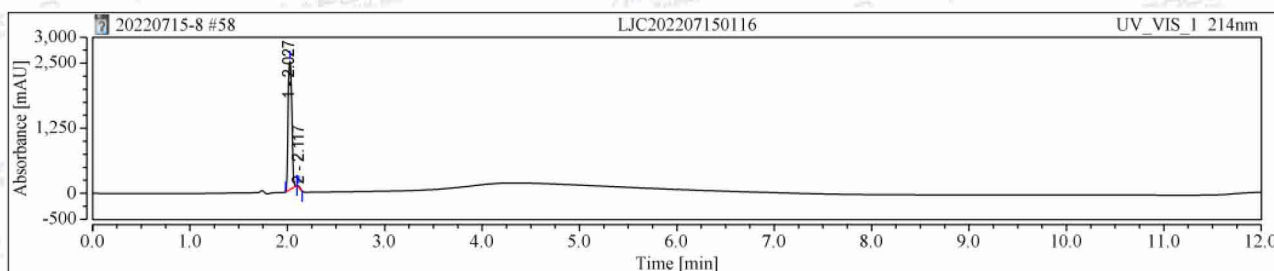
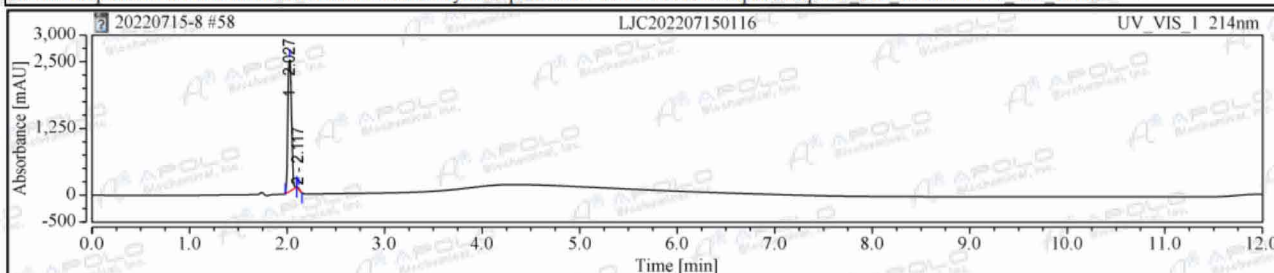
The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Jennifer LaBrecque 01/2023
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO

Chromatogram and Results

Sample ID: LJC202207150116 CAS NO.: 37718-11-9
 Batch No: Channel: UV_VIS_1
 Vial Number: BB7 Wavelength: 214.0
 Injection Type: Unknown Injection Volume: 5.00
 Instrument: LC10410 Injection Time: 16/07/2022 14:28
 Instrument Method: 10-80A-12min(LP-HPLC) InstMeth.creation_t 15/04/2022 17:33
 Processing Method: LJC202207150116 Last update_time: 18/07/2022 11:06
 seq.creation_operator Mxuyq
 chrom://ahgc015/CMDATA/Instrument Data/LC10410/Leyan/Sequence/202207/20220715-8.seq/867.smp/UV_VIS_1.channel/UV_VIS_1.chm



No.	Retention Time min	Area mAU*min	Height mAU	Plates (USP)	Resolution (USP)	Asymmetry (USP)	Rel.Area %	Peak Name
1	2.027	108.371	2465.862	15114	1.14	1.10	99.576	
2	2.117	0.461	20.103	8449	n.a.	1.17	0.424	
Total:		108.832	2485.966		1.14			

