

Certificate of Analysis

Product Name	3-Bromo Carbidopa	Batch No.	M23X01084
CAS No.	1246819-09-9	MFG. Date	Jan 08, 2023
CAT No.	M032184	Retest Date	Jan, 2026
Items	Specification	Results	
Appearance	White to off-white solid	Conforms	
Identification IR MS 1H NMR	Conforms to structure Conforms to structure Conforms to structure	Conforms Conforms Conforms	
Purity (HPLC)	≥ 95.0%	99.3%	
Impurity (HPLC)	RT 12.85, 0.11%; RT 16.99, 0.30%; RT 20.83, 0.17%		
Residual Solvents (NMR)	No residual solvent		
Assay (qNMR)	≥ 90.0%	91.4%	
Conclusion	Corresponds.		
Storage Condition	Refrigerator.		

QC:

Alex Foster

QA:

Felix Hobart

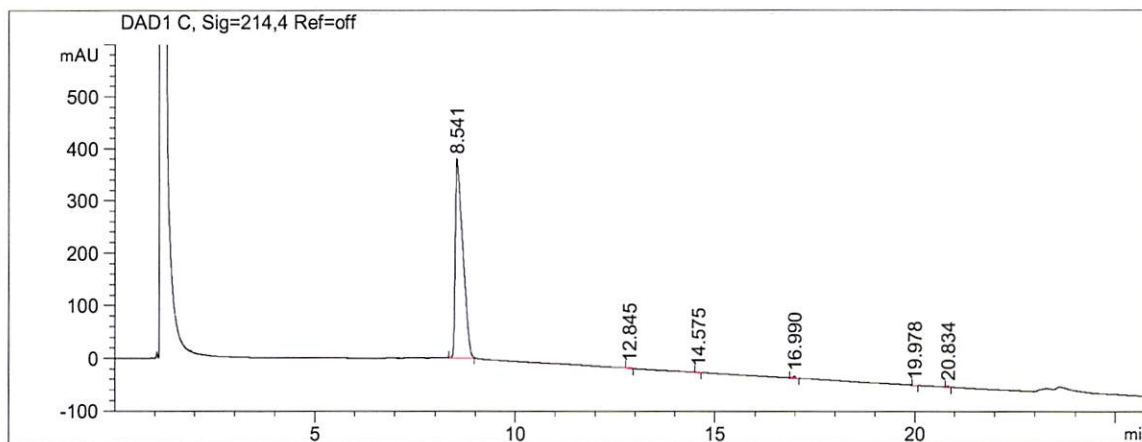
Sample Name: M23X01084

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Acq. Operator   : Juan Fang
Sample Operator : Juan Fang
Acq. Instrument : LC-1260_4                      Location : 5
Injection Date  : 1/9/2023 2:52:19 PM
                                           Inj Volume : 0.800 µl

Acq. Method     : C:\CHEM32\1\METHODS\3.M
Last changed    : 1/9/2023 2:47:28 PM by Juan Fang
                  (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\3.M
Last changed    : 1/9/2023 3:19:36 PM by Juan Fang
                  (modified after loading)
Sample Info     : Poroshell 120 SB-C18 (4.6*100mm,2.7um); F=1.0mL/min; T=30 degree;
                  CH3OH/0.05% TFA=17/83(0-6min),17/83-80/20(6-25min),80/20((after 25min)
                  ~0.9mg in 0.5mL DMSO

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                          Area Percent Report
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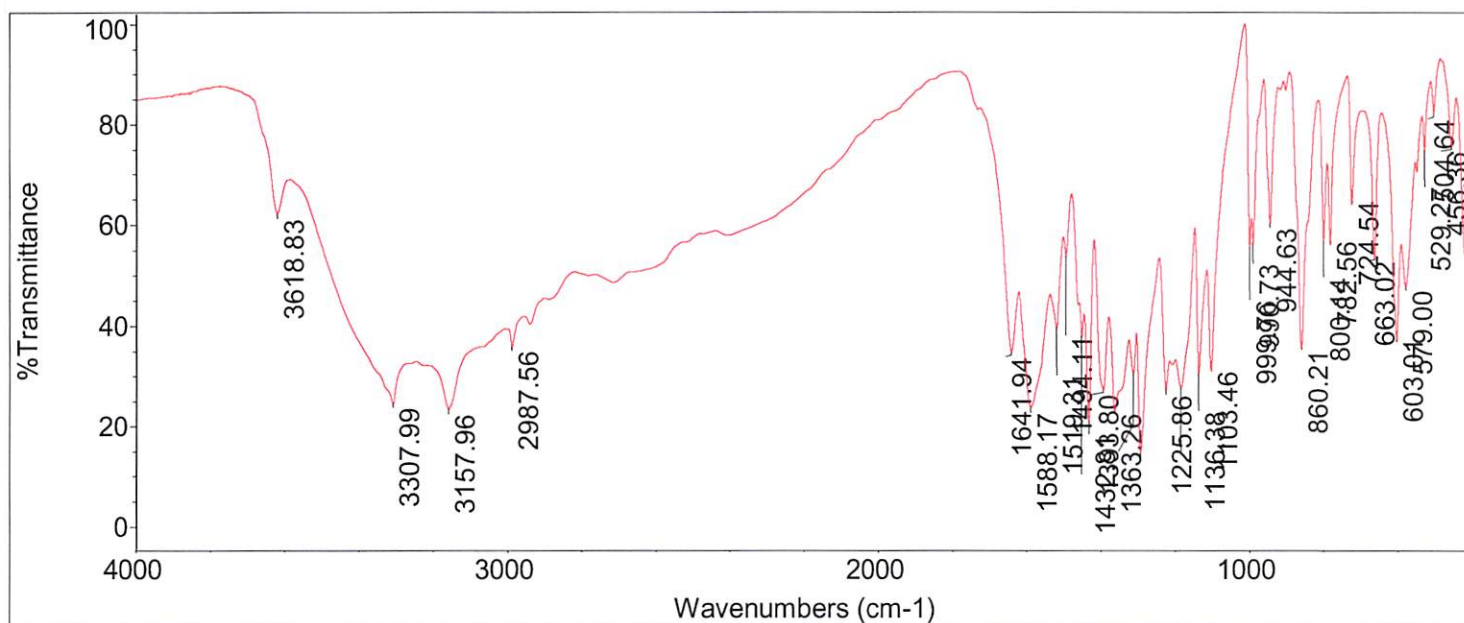
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

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Signal 1: DAD1 C, Sig=214,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.541	BBA	0.2040	4929.26855	378.35748	99.3337
2	12.845	BBA	0.0949	5.30163	8.72784e-1	0.1068
3	14.575	BBA	0.0658	3.11071	7.28874e-1	0.0627
4	16.990	BBA	0.0670	14.69438	3.36463	0.2961
5	19.978	BBA	0.1016	1.73202	2.60501e-1	0.0349
6	20.834	BBA	0.0573	8.22421	2.21736	0.1657

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Totals :                      4962.33151  385.80163
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FIND PEAKS:

Region: 4000.00 400.00
 Absolute threshold: 98.097
 Sensitivity: 50

Peak list:

Position:	Intensity:
456.36	75.622
504.64	82.222
529.27	74.926
579.00	47.724
603.01	36.949
663.02	53.250
724.54	64.181
782.56	56.161
800.14	56.715
860.21	35.439
944.63	60.202
990.73	56.412
999.76	55.488
1103.46	30.917
1136.38	30.425
1184.64	27.731
1225.86	27.278
1293.39	14.669
1313.48	30.526
1363.26	23.122
1393.80	27.289
1432.81	20.909
1451.40	37.885
1494.11	53.784
1519.31	39.542
1588.17	23.734
1641.94	34.690
2987.56	35.754
3157.96	23.490
3307.99	24.508
3618.83	62.192

MS Spectrum



M23X01084

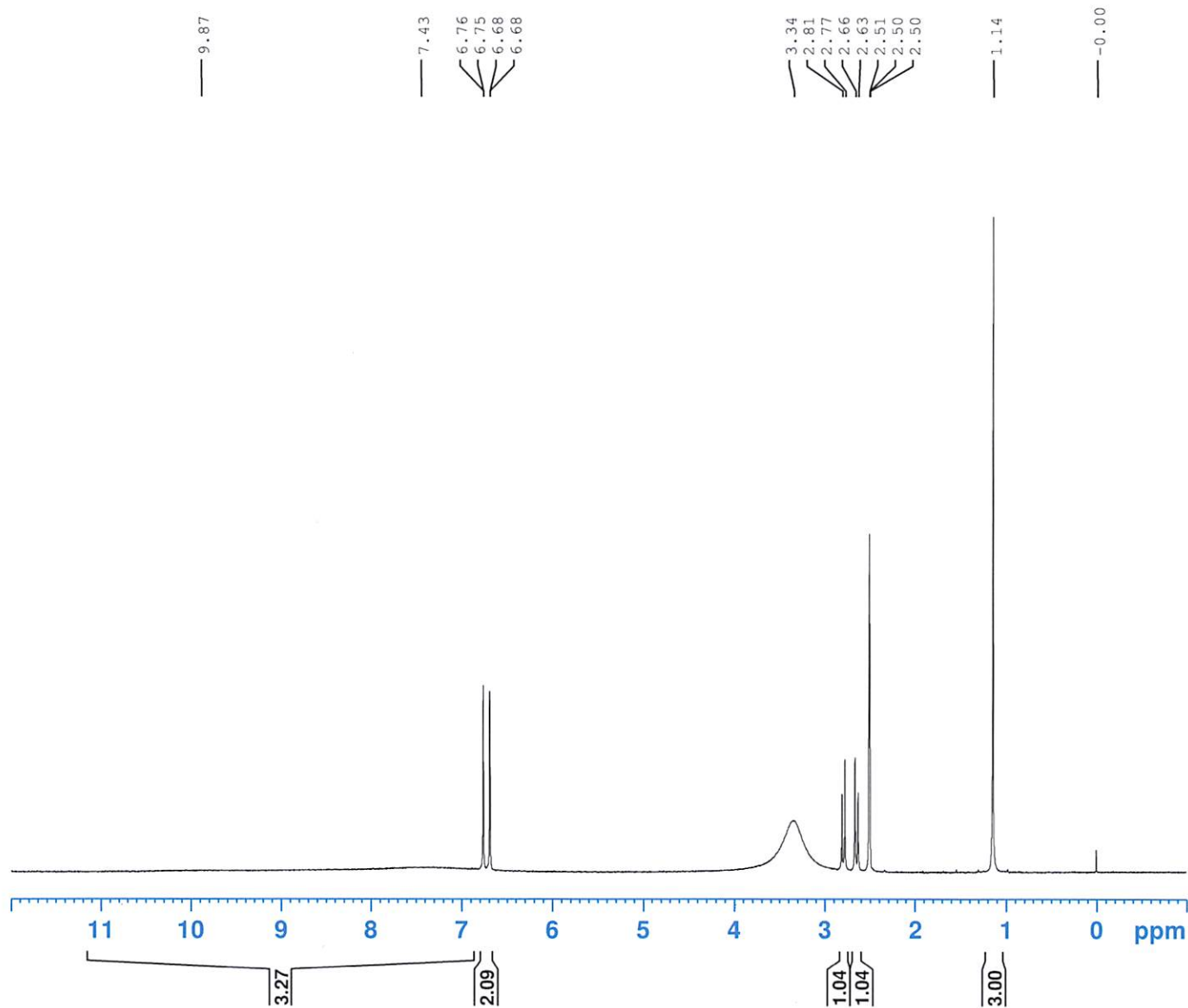
¹H NMR in DMSO-d₆



Current Data Parameters
NAME 2023-01-09 (NMR-400_2)
EXPNO 43
PROCNO 1

F2 - Acquisition Parameters
Date_ 20230109
Time 10.49 h
INSTRUM spect
PROBHD Z116098_0656 (
PULPROG zg30
TD 65536
SOLVENT DMSO-d6
NS 4
DS 0
SWH 9615.385 Hz
FIDRES 0.293438 Hz
AQ 3.4078720 sec
RG 109.98
DW 52.000 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1
SFO1 400.1836016 MHz
NUC1 ¹H
P1 9.70 usec
PLW1 19.54100037 W

F2 - Processing parameters
SI 65536
SF 400.1800025 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 0.50



M23X01084 (5.249mg) and 92816(5.537mg) 1H NMR in CD3OD

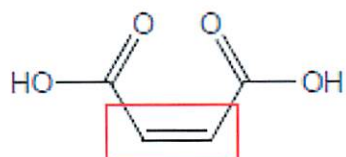


Current Data Parameters
 NAME 2023-01-09(NMR-400_1)
 EXPNO 6
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230109
 Time 13.00 h
 INSTRUM spect
 PROBHD Z116098_0293
 PULPROG zg30
 TD 65536
 SOLVENT CD3OD
 NS 8
 DS 0
 SWH 4807.692 Hz
 FIDRES 0.146719 Hz
 AQ 6.8157439 sec
 RG 92.06
 DW 104.000 usec
 DE 6.50 usec
 TE 298.0 K
 D1 60.0000000 sec
 TD0 1
 SFO1 400.1320007 MHz
 NUC1 1H
 P1 9.63 usec
 PLW1 17.45800018 W

F2 - Processing parameters
 SI 65536
 SF 400.1300089 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Chemical Formula: $C_4H_4O_4$
 Molecular Weight: 116.07



92816
 Maleic Acid
 99.94%

