

Certificate of Analysis

Ac-D-2-Nal-OH

PurCert Standard

Product Number	PSR47148	CAS No.	37440-01-0
Brand	PureSynth	Lot No.	A41673B0525
Molecular Formula	C ₁₅ H ₁₅ NO ₃	Date of Mfg.	May,2025
Molecular Weight	257.28 g/mol	Date of Exp.	April,2030

Test	Specification	Result
Description	White to off-white Solid	Complies
Assay (HPLC)	≥ 98.0 %	99.97 %
Water (By KF)	NMT 0.500 %	0.293 %
Identification by ¹ H NMR	Conforms to structure	Conforms
Identification by MS	Conforms to molecular mass	Conforms
Identification by IR	Conforms to structure	Conforms

***Traceable to Internal Reference standard.**

Storage Condition: Store at a temperature of -20°C and keep the container tightly closed.

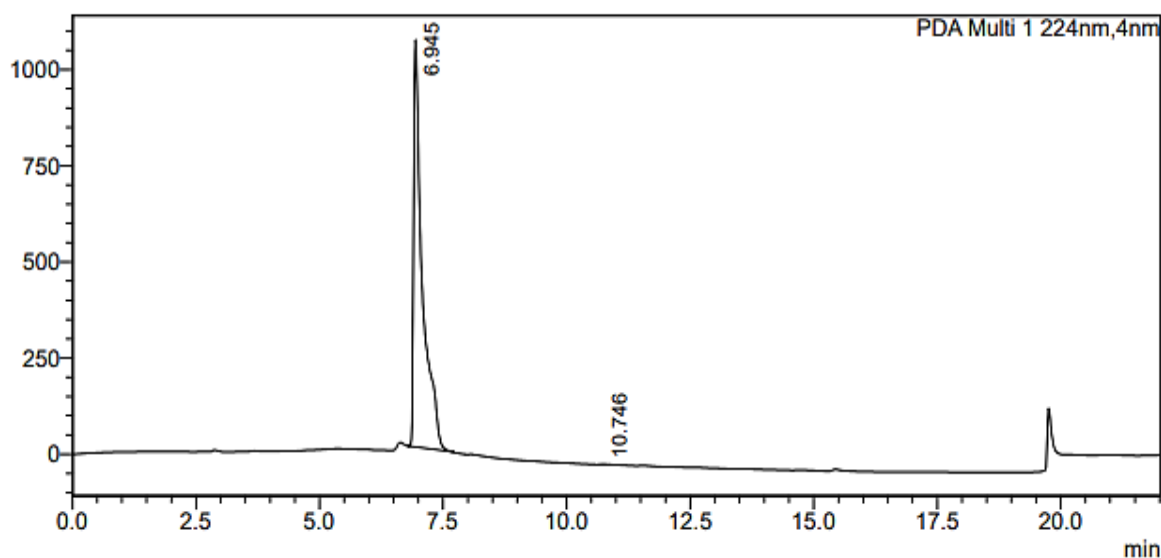
Remark: The batch complies with the prescribed quality of the above specification.

Assay by HPLC

Sample Name : Ac-D-2-Nal-OH-A41673B0525
Data Filename : CAS-AR25200667-Ac-D-2-Nal-OH-A41673B0525.lcd
Method Filename : shimpack-AA90-ACN-10-1.lcm
Vial # : 2-3
Injection Volume : 5 uL
Date Acquired : 6/3/2025 11:33:06 AM
Date Processed : 6/3/2025 12:46:13 PM

<Chromatogram>

mAU



<Peak Table>

PDA Ch1 224nm

Peak#	Ret. Time	Area	Height	Area%
1	6.945	12965023	1057908	99.976
2	10.746	3157	500	0.024
Total		12968180	1058408	100.000

Purity by HPLC: 99.97 %

IDENTIFICATION TESTS

MS Spectrum:

Mass by MS:

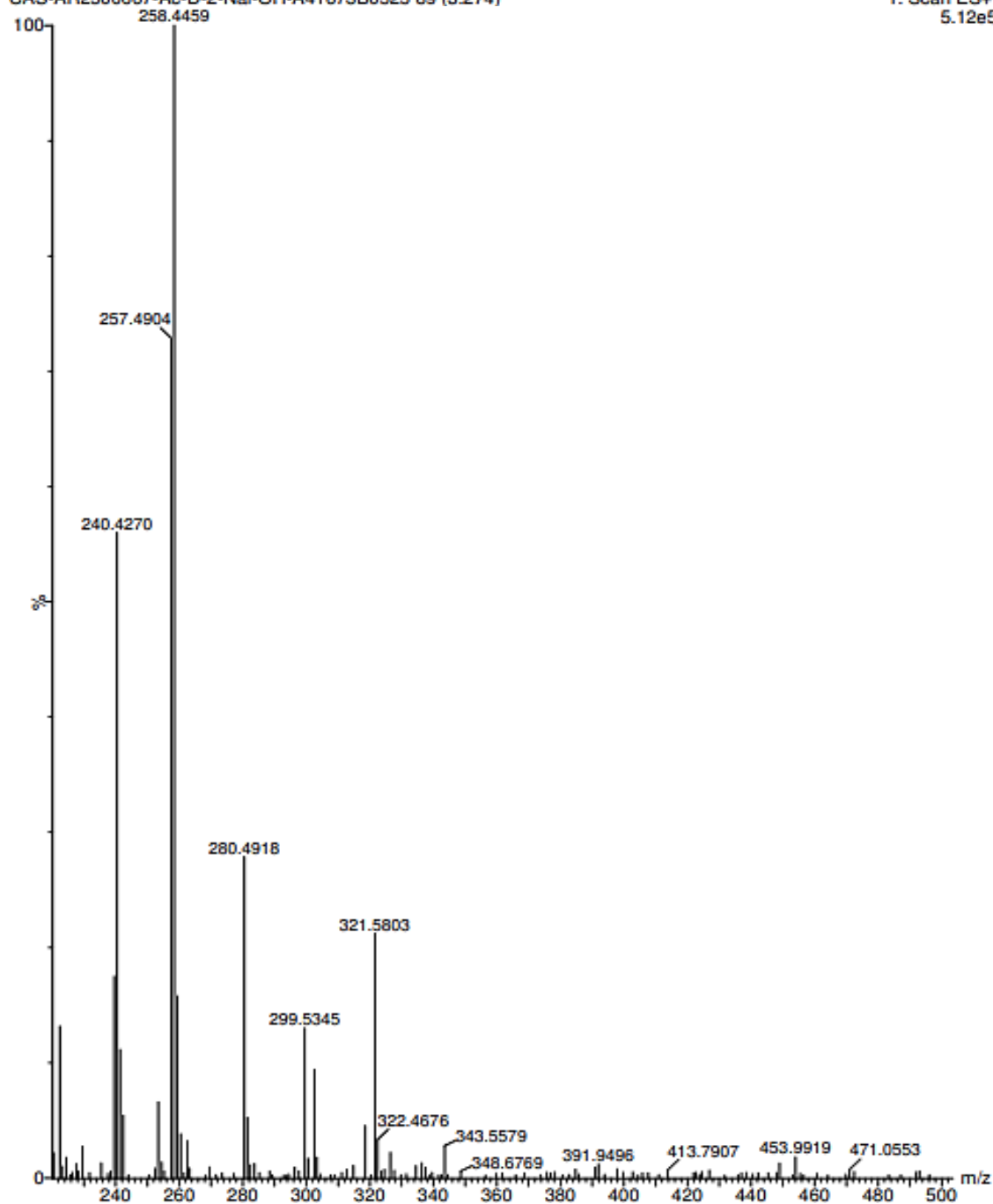
Product Name: Ac-D-2-Nal-OH

Product Code: PSR47148

03-Jun-2025 13:43:53

1: Scan ES+
5.12e5

CAS-AR2500667-Ac-D-2-Nal-OH-A41673B0525 89 (3.274)



Identification by MS: Conforms to molecular mass

PureSynth Research Chemicals GmbH, 64683 Einhausen Marie-Curie-StraBe. 3, Germany

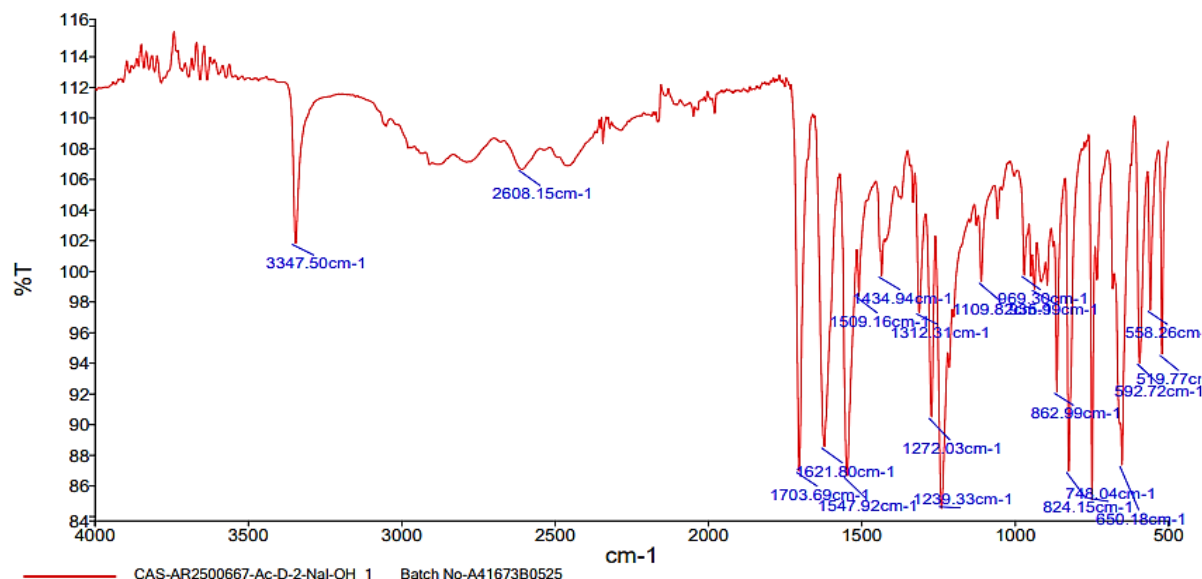
☎: 1800-8908-260, ✉: info@pure-synth.com, 🌐: www.pure-synth.com

Infrared spectrum:

Product Name: Ac-D-2-Nal-OH

Product Code: PSR47148

Analyst
Date



Source Spectra Results		
Spectrum Name		Number Of Peaks
CAS-AR2500667-Ac-D-2-Nal-OH_1		36
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	3785.95	112.33
2	3697.09	112.70
3	3659.44	112.52
4	3636.29	112.51
5	3347.50	101.83
6	2910.44	106.98
7	2608.15	106.66
8	2457.80	106.91
9	2344.62	108.35
10	2049.30	110.13
11	1979.46	110.34
12	1703.69	86.96
13	1621.80	88.56
14	1547.92	86.64
15	1509.16	98.41
16	1434.94	99.70
17	1332.20	104.50
18	1312.31	97.30
19	1272.03	90.49
20	1239.33	84.51
21	1214.34	93.72
22	1109.82	99.32
23	1056.49	103.44
24	969.30	99.75
25	947.90	99.69
26	935.99	98.84
27	913.90	99.32
28	894.25	99.12
29	862.99	92.13
30	824.15	86.96
31	748.04	85.06
32	732.02	99.47
33	650.18	87.36
34	592.72	94.02
35	558.26	97.48
36	519.77	94.60

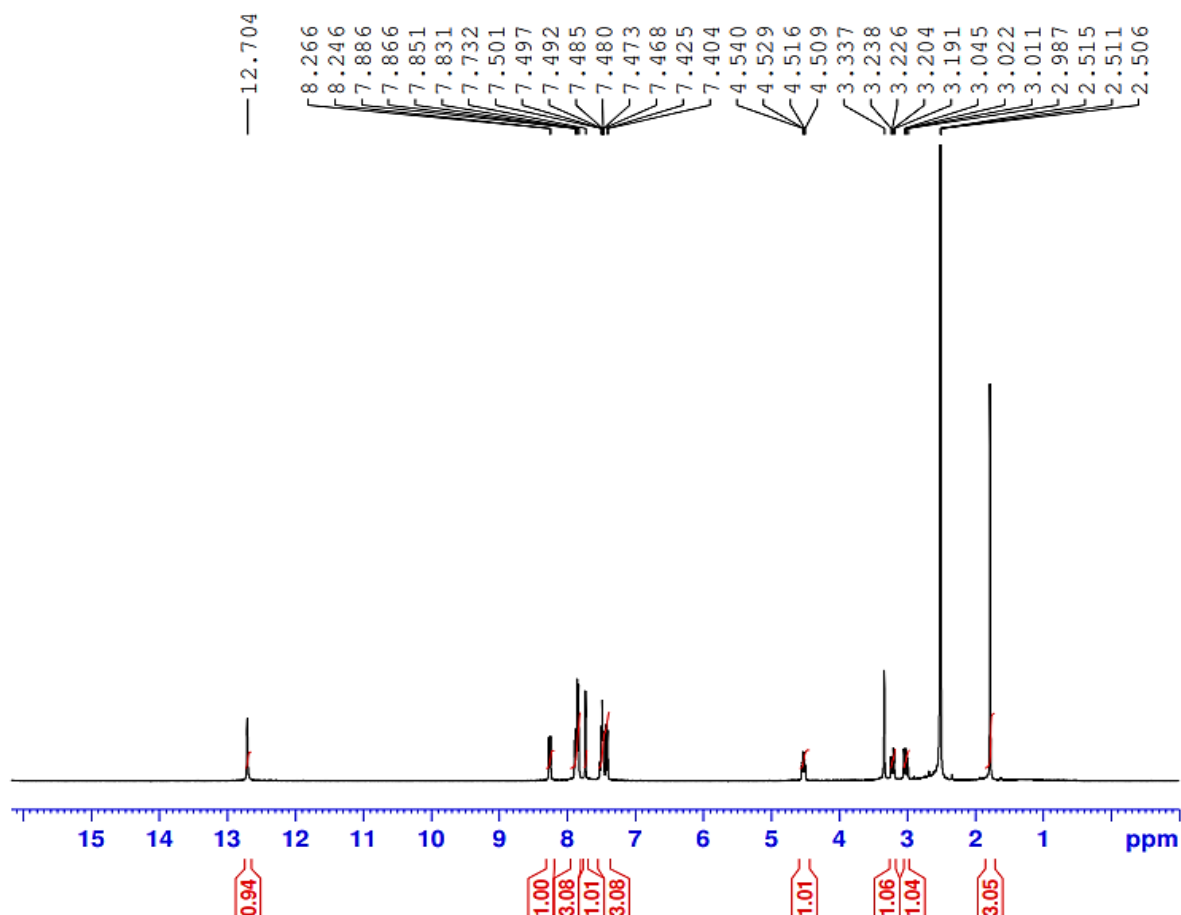
Identification by IR: Conforms to structure

¹H NMR Spectrum:

Product Name: Ac-D-2-Nal-OH

Product Code: PSR47148

Ac-D-2-Nal-OH
B.No : A41673B0525
¹H-NMR in DMSO



Identification by ¹H NMR: Conforms to structure

Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR47148) = **0.293 %**

Approved By
Head - Technical

This is a computer-generated report -does not required sign