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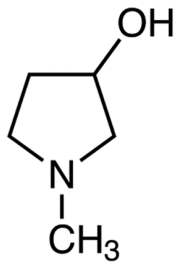
CERTIFICATE OF ANALYSIS

Product Name	1-Methyl-3-pyrrolidinol, GC standard		
Synonyms	3-Hydroxy-1-methylpyrrolidine		
CAS No	13220-33-2		
Product code	SYI0062	**Batch No**	LMEBF0911
Molecular Formula	$C_5H_{11}NO$	**Molecular Weight**	101.15
Mfg. Date	Sep-26	**Expiry Date**	Aug-29
Storage Conditions	Store at room temperature, tightly closed container		

Test	Specification	Results
Description	Colorless to Light yellow clear liquid	Light yellow clear liquid
Boiling Point	75 °C	75 °C
Specific Gravity at 20°C	0.99 g/ml	0.99 g/ml
Purity by GC	≥99.00%	99.97%
IR Spectrum	Identification by structure	Confirmed
1H NMR Spectra	Identification by structure	Confirmed
Mass Spectra	Identification by molecular weight	Confirmed

Reference to *USP* 30–*NF* 25 General Chapter <11>, "Reference Standards," As a result, noncompendial (secondary) reference standards require characterization data. This product should not use for clinical application.



Approved by
Dr. Gopinath PH. D

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Computer Generated document, Does not require any Signature.

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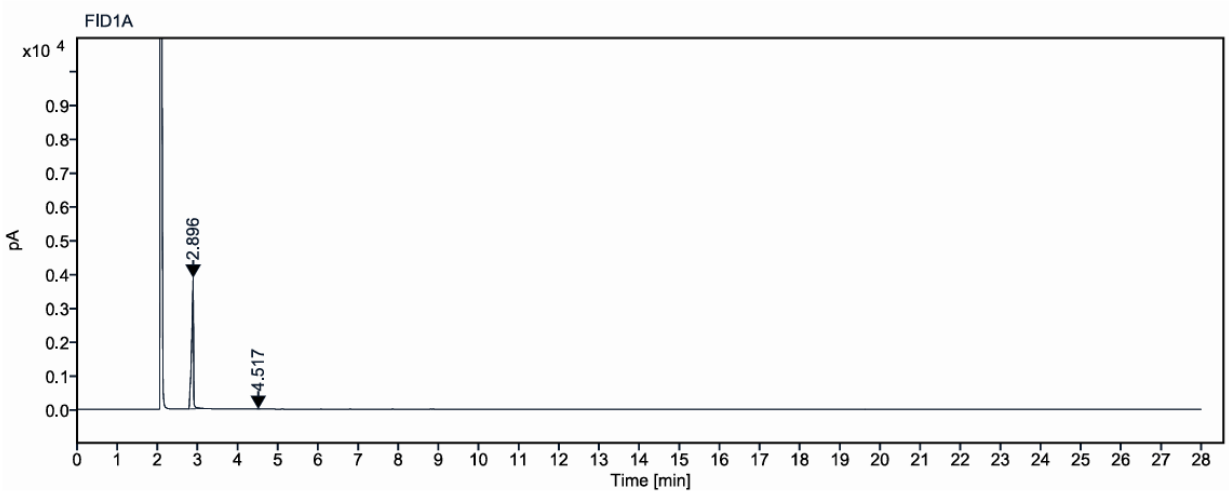
ANALYTICAL GC REPORT

Agilent

Data file:	LMEBF0911.dx
Method Name:	HP-5-GENERAL-METHOD.amx
Sample Name:	LMEBF0911
Injection Acquired Date	2026-09-21 17:59:17+05:30
Injection Processed Date	2026-09-21 18:55:03+05:30
Inj. volume:	0.500 µL
Vial Number:	104
Data File Directory:	/2026/SEP-2026/Results/21092026/20260921 172737008.rslt
Injection Column Name	HP-5
Instrument ID	SA/AD/INS/037



RT[MIN]	AREA	AREA %
2.896	12003.084	99.97
4.517	3.884	0.03

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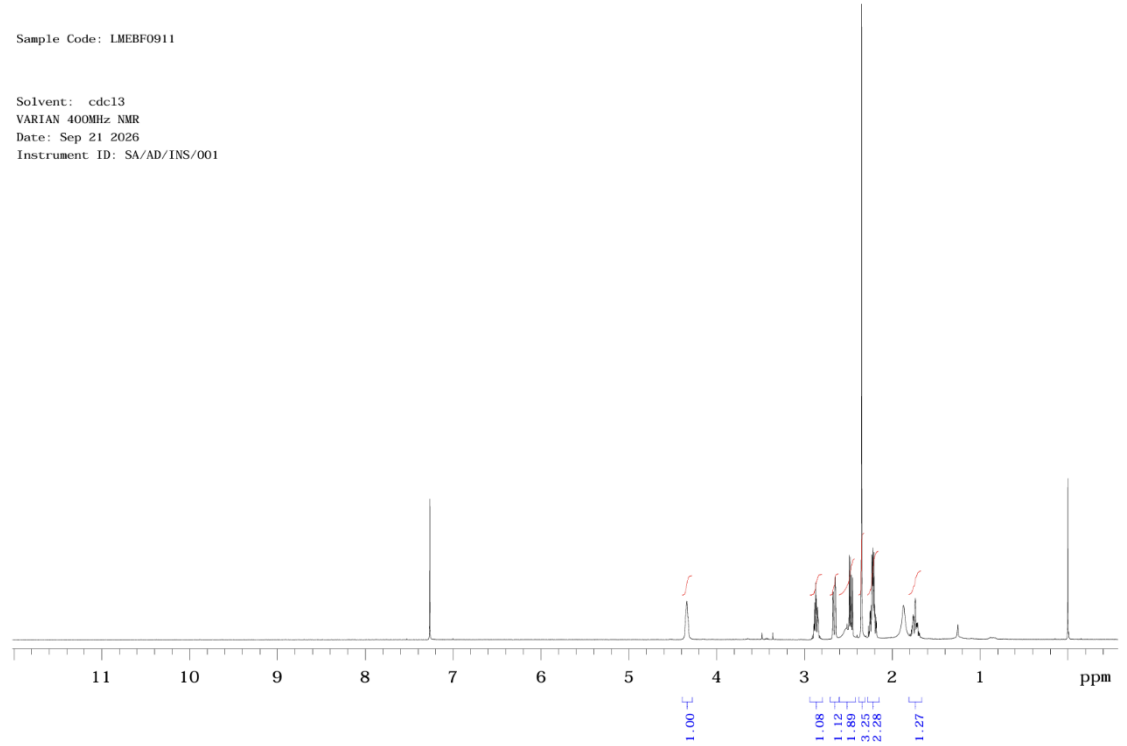
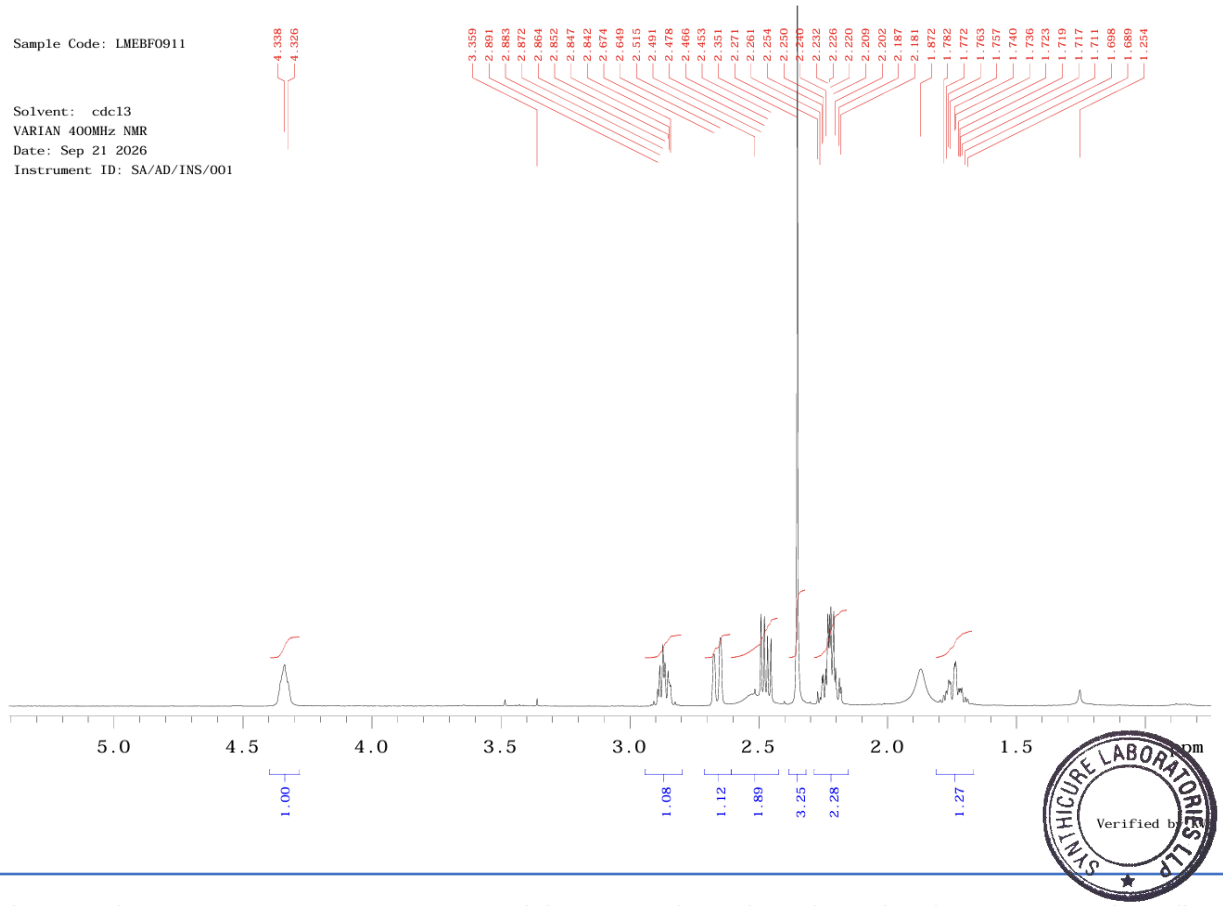
Identification by NMR: H1NMR





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Identification by NMR: H1NMR

exp1 PROTON

SAMPLE		PRESATURATION	
date	Sep 21 2026	satmode	n
solvent	cdcl3	wet	n
file	/home/SPARK/d~	SPECIAL	
ata/2026/Sep/LMEBF~		temp	not used
0911_20260921_01/L~		gain	34
MEBF0911_PROTON_20~		spin	20
260921_01.fid		hst	0.008
ACQUISITION		pw90	13.700
sw	8012.8	alfa	10.000
at	4.089	FLAGS	
np	65536	il	n
fb	4000	in	n
bs	2	dp	y
d1	1.000	hs	nn
nt	128	PROCESSING	
ct	18	lb	0.50
TRANSMITTER		fn	not used
tn	H1	DISPLAY	
sfrq	399.688	sp	-804.3
tof	1199.1	wp	8012.6
tpwr	59	rfl	804.5
pw	6.850	rfp	0
DECOUPLER		rp	-103.4
dn	C13	lp	0
dof	0	PLOT	
dm	nnn	wc	250
decwave	W40_GATB-0~	sc	0
	12	vs	447
dpwr	35	th	1
dmf	29412	ai cdc ph	

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2904.3	7.266	31.6	35	704.7	1.763	5.5
2	1734.0	4.338	8.6	36	702.3	1.757	5.1
3	1728.8	4.326	5.1	37	695.4	1.740	8.9
4	1342.7	3.359	1.6	38	694.0	1.736	9.3
5	1155.7	2.891	3.6	39	688.8	1.723	3.7
6	1152.5	2.883	8.4	40	687.1	1.719	3.6
7	1147.8	2.872	12.8	41	686.4	1.717	3.6
8	1144.7	2.864	9.1	42	684.0	1.711	3.8
9	1139.8	2.852	7.3	43	678.6	1.698	1.9
10	1137.8	2.847	5.0	44	675.2	1.689	1.5
11	1135.9	2.842	4.4	45	501.3	1.254	3.4
12	1068.6	2.674	10.8	46	-0.0	-0.000	36.3
13	1058.8	2.649	14.2	47	-3.2	-0.008	1.6
14	1005.3	2.515	3.6				
15	995.7	2.491	19.0				
16	990.4	2.478	18.6				
17	985.5	2.466	14.6				
18	980.3	2.453	14.0				
19	939.5	2.351	225.5				
20	907.7	2.271	3.0				
21	903.8	2.261	1.9				
22	900.9	2.254	6.2				
23	899.1	2.250	6.5				
24	895.2	2.240	7.8				
25	892.1	2.232	19.1				
26	889.6	2.226	19.0				
27	887.4	2.220	20.7				
28	883.0	2.209	19.7				
29	880.1	2.202	8.0				
30	874.2	2.187	5.8				
31	871.8	2.181	4.0				
32	748.0	1.872	7.7				
33	712.1	1.782	2.3				
34	708.2	1.772	3.2				

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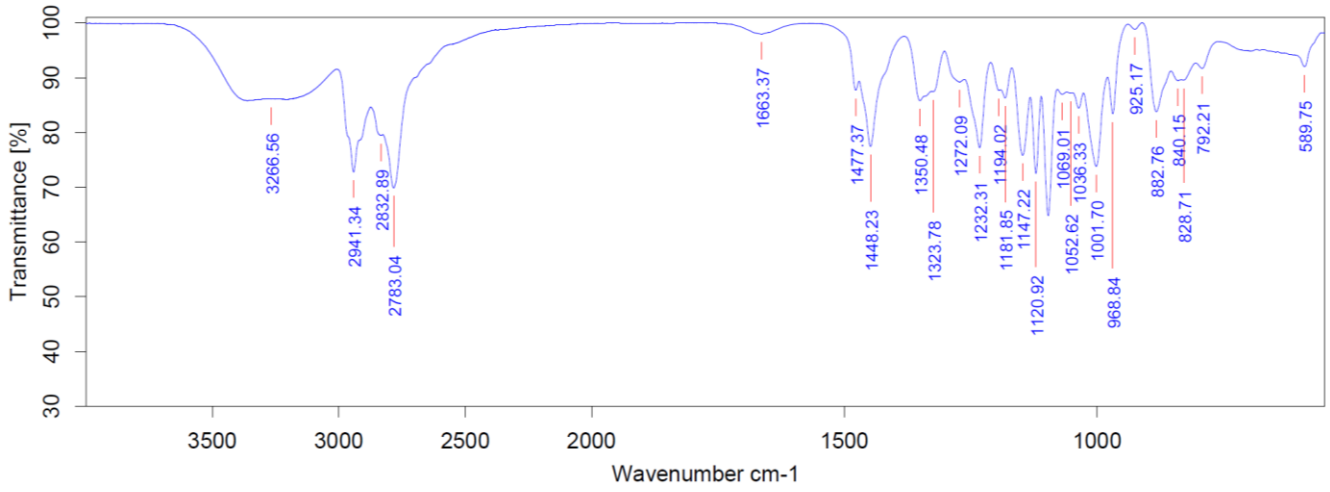
Identification by Infrared Spectroscopy (IR)



Path/File Name:D:\2026\SEP-2026/LMEBF0911.0

Sample Name:LMEBF0911

Lot No./Batch No:LMEBF0911

Date & Time:9/21/2026,3:30:13 PM

Operator Name:SPARK

Experiment:SEP-2026.XPM

Resolution:2

Sample Scans:16

Frequency Range:4000 to 550

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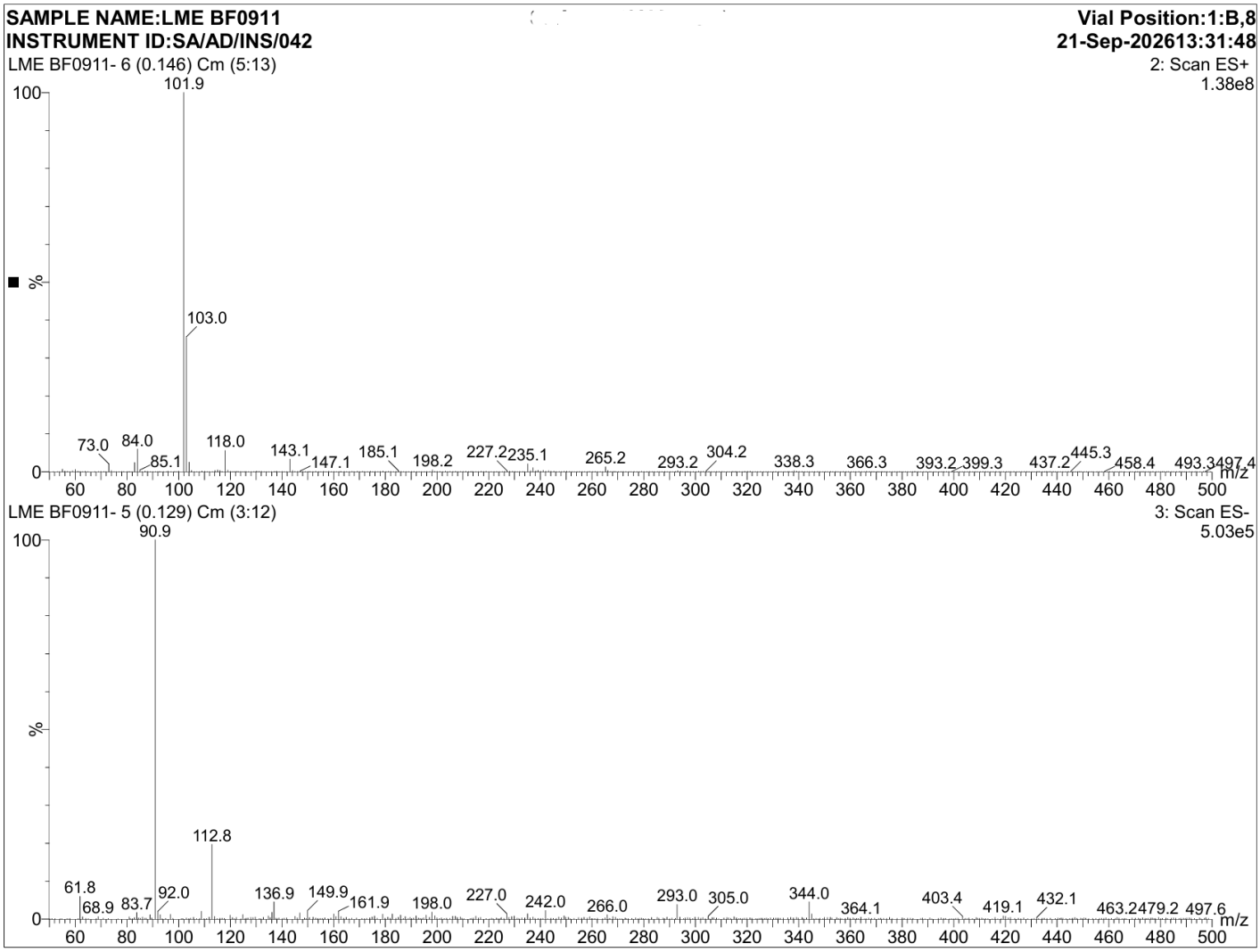
Identification by Mass spectrometry (MS)



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