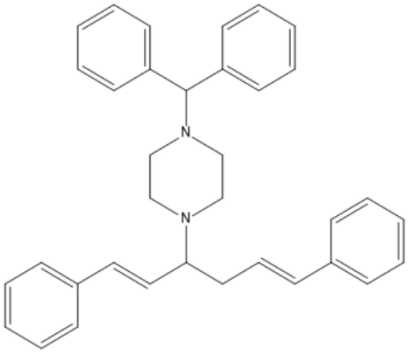
SynthiCure
An ISO 9001 : 2015 Certified Company

CERTIFICATE OF ANALYSIS

Product Name	Cinnarizine Impurity D		
Synonyms	1-(Diphenylmethyl)-4-[4-phenyl-1-(2-phenylethenyl)-3-buten-1-yl]piperazine		
CAS No	1199751-98-8		
Product code	SYI0056	**Batch No**	LCIBF0506
Molecular Formula	C35H36N2	**Molecular Weight**	484.67
Mfg. Date	Mar-26	**Expiry Date**	Apr-27
Storage Conditions	Store at 2 to 8 °C temperature, tightly closed container		

Test	Specification	Results
Description	Off-white solid	Off-white solid
Solubility	Soluble in MDC and DMF	Complies
Identification by Mass	Confirms to the structure	Confirms to the structure
Identification by H^1 NMR	Confirms to the structure	Confirms to the structure
Purity by HPLC	99.50%	99.99%

Remarks: Based on NMR, MASS spectra and other Analytical data, the material confirms to the above structure.



Approved by
Dr. Gopinath PH. D

SYNTHICURE LABORATORIES LLP

Computer Generated document, Does not require any Signature.

Synthicure Laboratories LLP, 5-5-35/276A/NR, Sakthipuram Industrial Road, Prashanth Nagar, IDA Kukatpally, Hyderabad-500072 Telangana, India.

www.synthicure.com

sales@synthicure.com

SynthiCure
An ISO 9001 : 2015 Certified Company

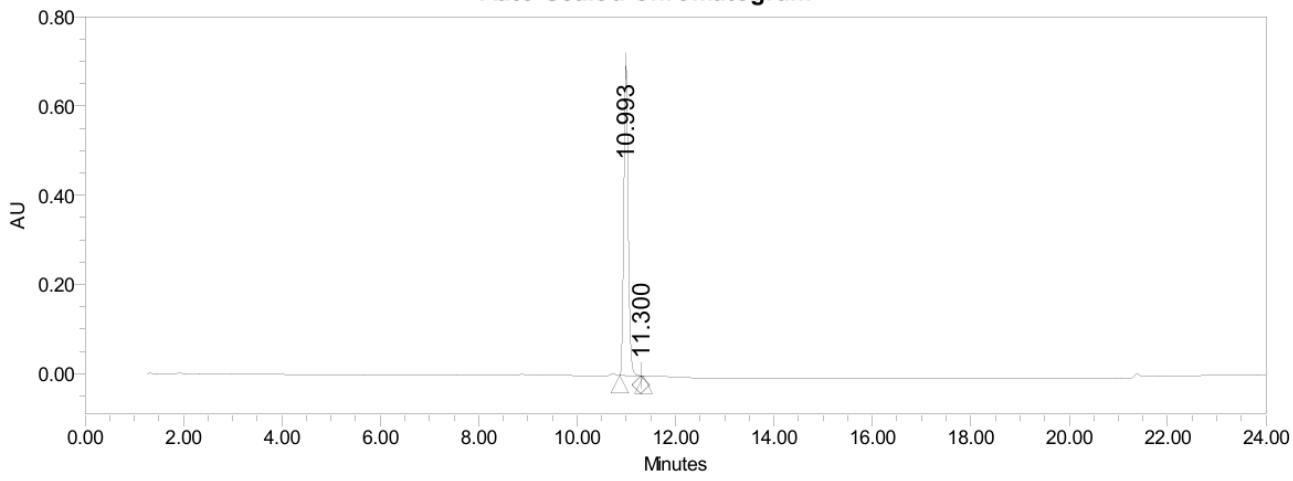
Analytical HPLC Report

SAMPLE INFORMATION

Sample Name:	LCIBF0506		
Sample Type:	Unknown	Sample Set Name:	17032025 HPLC2 MORNING
Vial:	17	Acq. Method Set:	HPLC PURITY 24 MIN_NEW
Injection #:	1	Processing Method:	Default
Injection Volume:	2.00 ul	Channel Name:	248.0nm
Run Time:	24.0 Minutes	Proc. Chnl. Descr.:	PDA 248.0 nm
INS ID : SA-AD-INS-021		Acquired By:	Analyst
Date Acquired:	3/17/2025 9:18:51 PM IST		
Date Processed:	3/18/2025 6:13:29 AM IST		

METHOD INFORMATION:
BUFFER:
MP A:0.1% TFA IN WATER
MP B: ACN :WATER (90:10)V/V
COLUMN:X-TERRA MS C18(150MM *4.6*5um)
GRADIENT PRO:0/10,3/10,10/100,19/100,19.5/10,24/10
FLOW:1.0ML/MIN

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	% Area
1		10.993	4391336	99.99
2		11.300	604	0.01

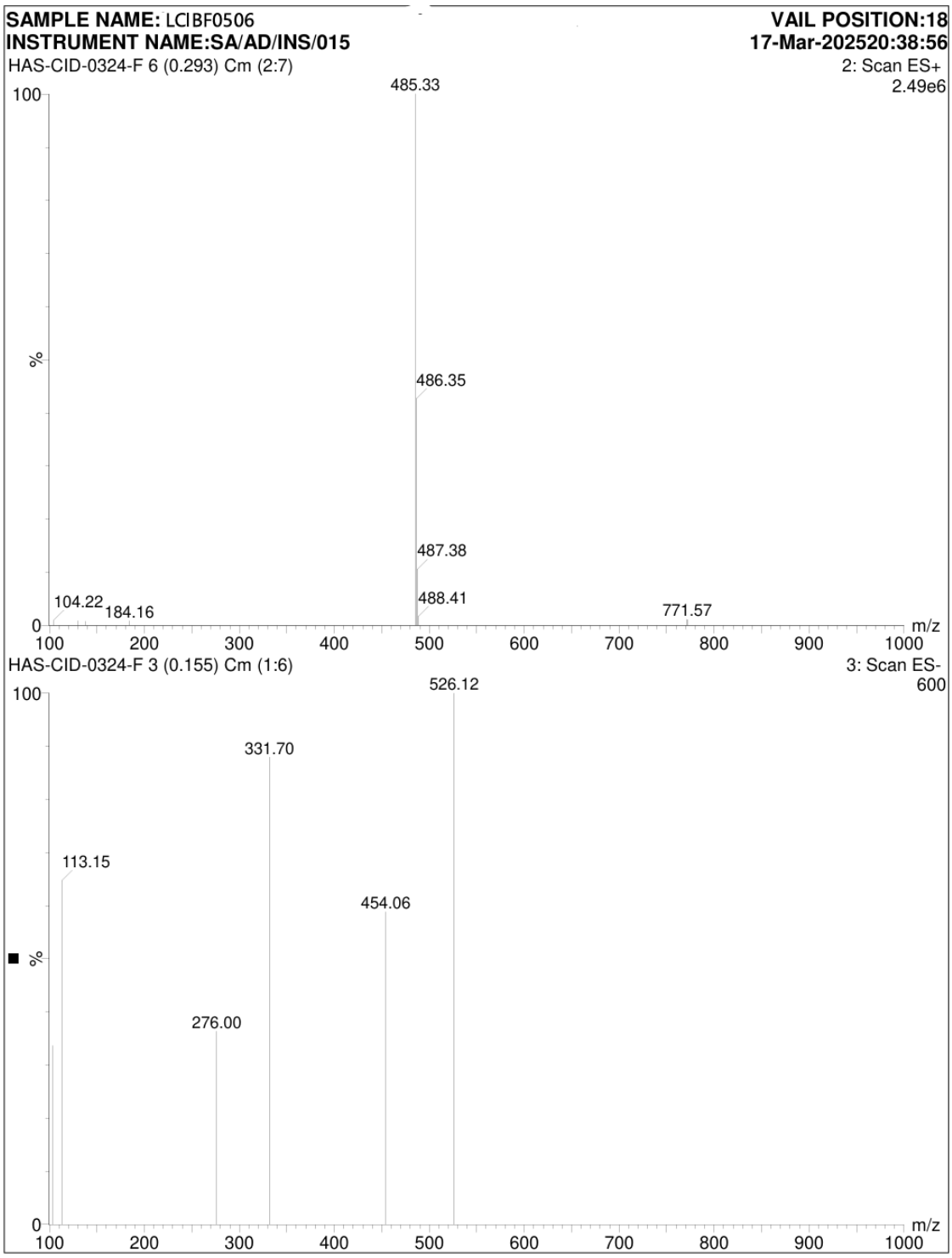
SYNTHICURE LABORATORIES LLP

Synthicure Laboratories LLP, 5-5-35/276A/NR, Sakthipuram Industrial Road, Prashanth Nagar, IDA Kukatpally, Hyderabad-500072 Telangana, India.

www.synthicure.com

sales@synthicure.com

Identification by Mass spectrometry (MS)

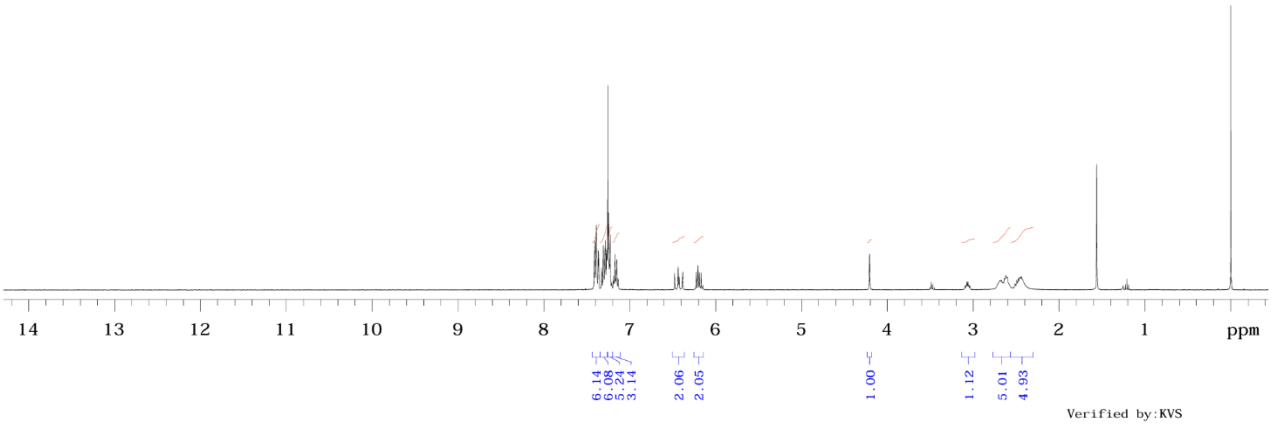


SynthiCure
An ISO 9001 : 2015 Certified Company

Identification by NMR: H1NMR

Sample Code: LCIBF0506

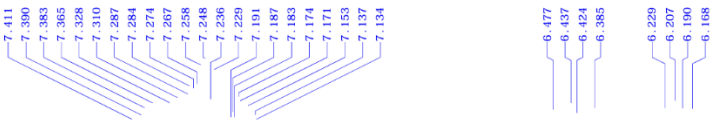
Solvent: cdcl3
AGILENT 400MHz NMR
Date: Mar 17 2025
Instrument ID: SA/AD/INS/014

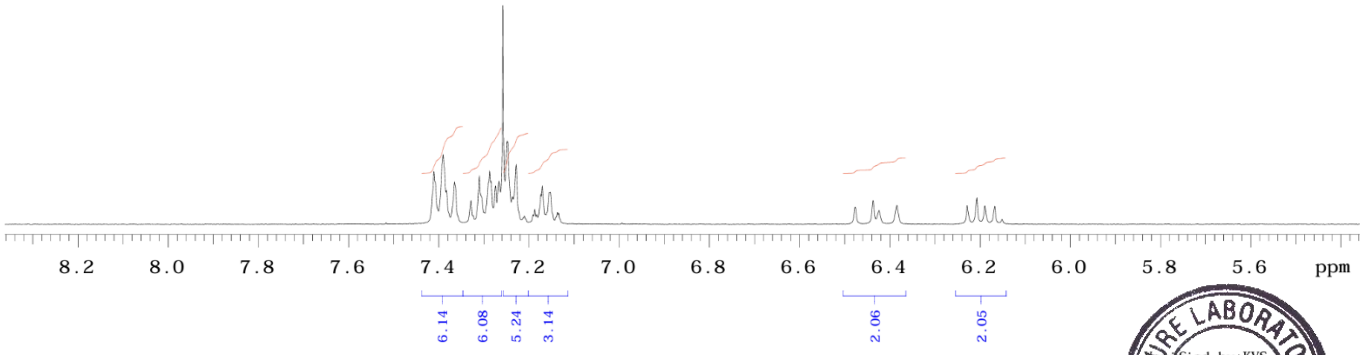


Verified by:KVS

Sample Code: LCIBF0506

Solvent: cdcl3
AGILENT 400MHz NMR
Date: Mar 17 2025
Instrument ID: SA/AD/INS/014





Verified by:KVS

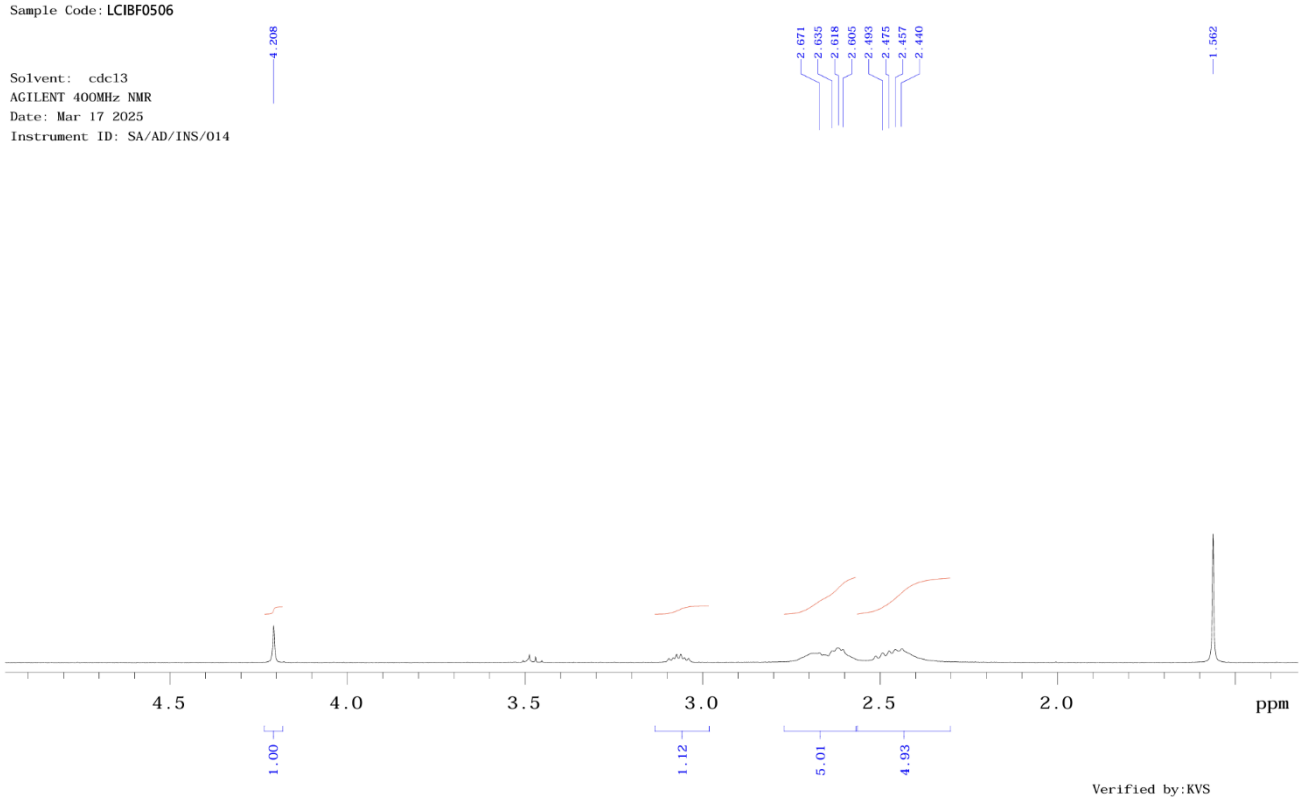
SYNTHICURE LABORATORIES LLP

SynthiCure
An ISO 9001 : 2015 Certified Company

dentification by NMR: H1NMR

Sample Code: LCIBF0506

Solvent: cdcl3
AGILENT 400MHz NMR
Date: Mar 17 2025
Instrument ID: SA/AD/INS/014



Verified by:KVS

exp3 PROTON

SAMPLE		PRESATURATION	
date	Mar 17 2025	satmode	n
solvent	cdcl3	wet	n
file	/home/spark-d~	SPECIAL	
	d2/data/2025/Mar/H~	temp	not used
	AS-CID-0324-F_2025~	gain	28
	0317_01/HAS-CID-03~	spin	20
	24-F_PROTON_202503~	hst	0.008
	17_01.fid	pw90	12.700
ACQUISITION		alfa	10.000
sw	7183.9	FLAGS	
at	4.000	il	n
np	57472	in	n
fb	4000	dp	y
bs	2	hs	nn
d1	1.000	PROCESSING	
nt	128	lb	0.50
ct	4	fn	not used
TRANSMITTER		DISPLAY	
tn	H1	sp	-787.5
sfrq	399.827	wp	7183.7
tof	799.6	rfl	787.7
tpwr	60	rfp	0
pw	6.350	rp	-121.1
DECOUPLER		lp	0
dn	C13	PLOT	
dof	0	wc	268
dm	nnn	sc	0
decwave	W40_ATB-89~	vs	686
	85	th	2
dpwr	38	ai	ph
dmf	29412		

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2963.0	7.411	10.4	33	1053.4	2.635	2.5
2	2954.9	7.390	13.7	34	1046.6	2.618	3.1
3	2952.0	7.383	6.7	35	1041.4	2.605	2.7
4	2944.8	7.365	8.3	36	996.9	2.493	2.0
5	2930.1	7.328	4.7	37	989.6	2.475	2.4
6	2922.8	7.310	9.4	38	982.4	2.457	2.7
7	2913.6	7.287	10.4	39	975.6	2.440	2.8
8	2912.3	7.284	8.5	40	624.6	1.562	26.6
9	2908.4	7.274	7.6	41	483.4	1.209	2.3
10	2905.5	7.267	8.5	42	3.1	0.008	2.7
11	2902.0	7.258	43.2	43	0.0	0.000	60.1
12	2898.1	7.248	16.4	44	-3.5	-0.009	2.1
13	2893.3	7.236	5.4				
14	2890.2	7.229	11.7				
15	2875.1	7.191	1.9				
16	2873.5	7.187	2.9				
17	2872.0	7.183	1.9				
18	2868.3	7.174	5.9				
19	2866.9	7.171	7.5				
20	2859.9	7.153	6.4				
21	2853.6	7.137	2.4				
22	2852.5	7.134	2.2				
23	2589.6	6.477	3.4				
24	2573.8	6.437	4.7				
25	2568.6	6.424	2.7				
26	2552.8	6.385	3.7				
27	2490.5	6.229	3.7				
28	2481.7	6.207	5.2				
29	2474.7	6.190	3.6				
30	2466.0	6.168	3.5				
31	1682.4	4.208	7.6				
32	1068.1	2.671	2.1				

SYNTHICURE LABORATORIES LLP

Synthicure Laboratories LLP, 5-5-35/276A/NR, Sakthipuram Industrial Road, Prashanth Nagar, IDA Kukatpally, Hyderabad-500072 Telangana, India.

www.synthicure.com

sales@synthicure.com