



Invochem Laboratory

25R0067

LABORATORY FOR TESTING PHARMACEUTICALS, COSMETICS & CHEMICALS
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LIC. No. KD/TL/05

Analytical Report Number

R442375

CERTIFICATE OF ANALYSIS IN FORM39

(RULE 150-E(f) of Drugs and Cosmetics Rule - 1945)

Report of Test or Analysis by Approved Institution

Date of Analytical Report

04/04/25

PARTY'S NAME & ADDRESS		Name of the Manufacturer/Supplier from whom R.M. is received by the party or name and address of Loan License		Mfg. LIC. No.	
1. NOVOEXCIPIENTS PVT.LTD.. A-374,TTC INDL.AREA,MIDC,MAHAPE, NAVI MUMBAI-400701					
2. Ref. No. & Date of the letter from the Manufacturer / Party under which the sample was forwarded		3. Date of Receipt		Quantity Received	
DT-01.04.2025		02/04/25		2X20 GM	
4. Name of Raw Material purporting to be contained in the sample :		Condition of the Sample on Receipt :		Good	
TRIACETIN					
5. Details of Raw Material as obtained from Manufacturer					
A. Original Manufacturers Name (in case of raw material)		B. Batch No.		C. Batch Size as represented by the sample	
THOMAS BAKER(CHEMICALS) PVT.LTD		PC/25/851/797-24/25/Q248/01		300.00 KG	
				D. Mfg. Date	
				MAR-2025	
				E. Expiry Date	
				FEB-2030	

ANALYSIS REQUIRED : COMPLETE ANALYSIS AS PER USP

6. Result of test or Analysis with protocol of test Analysis applied. : As Per USP 47

Sr.No	Test	Result	Specification
1	Description	Colourless oily liquid	Colourless somewhat oily liquid
2	Solubility	Complies	(Soluble in water, slightly soluble in carbon disulfide, miscible with alcohol, ether & chloroform)
3	Identification	-	
	A)	Complies for Triacetin	(By IR)
	B) By GC	Complies	(The retention time of the triacetin peak of the Sample solution corresponds to that of the Standard solution, as obtained in the Assay.)
4	Organic impurities (By GC)	-	
	Acetic acid	Not detected	(Limit: NMT 0.1%)
	Glycerol	Not detected	(Limit: NMT 0.1%)
	1-Monoacetin	Not detected	(Limit: NMT 0.1%)
	2-Monoacetin	Not detected	(Limit: NMT 0.1%)
	1,2-Diacetin	Not detected	(Limit: NMT 0.1%)
	1,3-Diacetin	Not detected	(Limit: NMT 0.1%)
	Individual, unspecified impurity	Not detected	(Limit: NMT 0.1%)
	Total impurities	Not detected	(Limit: NMT 0.2%)
5	Water	0.12%	(Limit: NMT 0.2%)
6	Assay (By GC)	99.48%	(Limit: 97.0% to 102.0%)
	(On anhydrous basis)	-	

*** End of Report ***

CHECKED & VERIFIED

By/On:

OPINION: In the OPINION of the undersigned, the sample referred to above is of STANDARD quality as defined in the act and the rules thereunder for the reason given below. The sample COMPLIES with prescribed standard with respect to above test as per USP 47

The opinion is in respect of the tests carried out and mentioned above.

The legal liabilities are limited upto the analytical charges only.

Note : 1. The results are related only to the sample tested.

2. This report shall not be reproduced without the written approval of Invochem Laboratory.

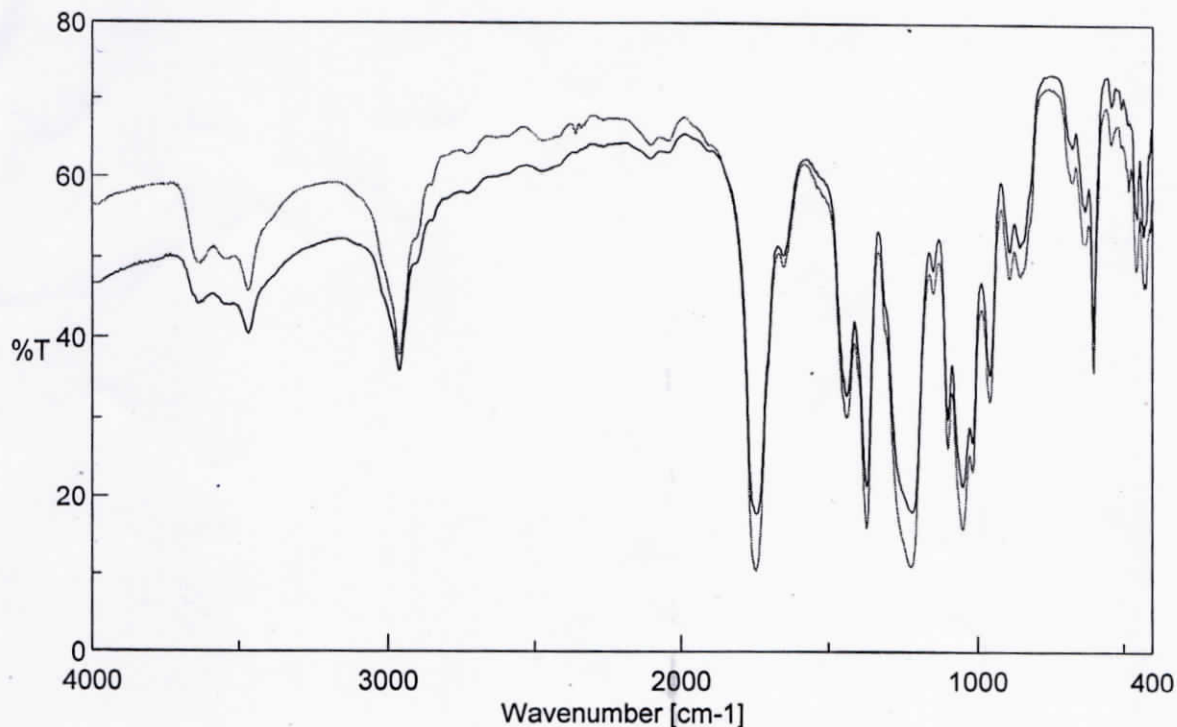
3. Sample not drawn by Invochem Laboratory.

(Signature of Person-in-Charge of testing)

FORMAT NO. : FQA-018/02/18

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Result - R442375 .jws



[Comparison of data]

Algorithm Correlation Coefficient
Range 3999.640 - 400.157cm-1
Threshold 0.950
Sample TRIACETIN STD
Score 0.955
Evaluation Pass

— R442375 .jws
- - - TRIACETIN STD.jws

[Comments]

Sample name TRIACETIN
Comment R.NO.R442375 B.NO.PC/25/851/797-24/25/Q248/01
User RIYA
Workgroup Quality control dept
Division ANALYST
Company Invochem Laboratory

[Measurement Information]

Model Name FT/IR-4600typeA
Serial Number D073961786

Measurement Date 04/04/25 11:15

Light Source Standard
Detector TGS
Accumulation 16
Resolution 4 cm-1
Zero Filling On
Apodization Cosine
Gain Auto (2)
Aperture Auto (7.1 mm)
Scanning Speed Auto (2 mm/sec)
Filter Auto (30000 Hz)

[Detailed Information]

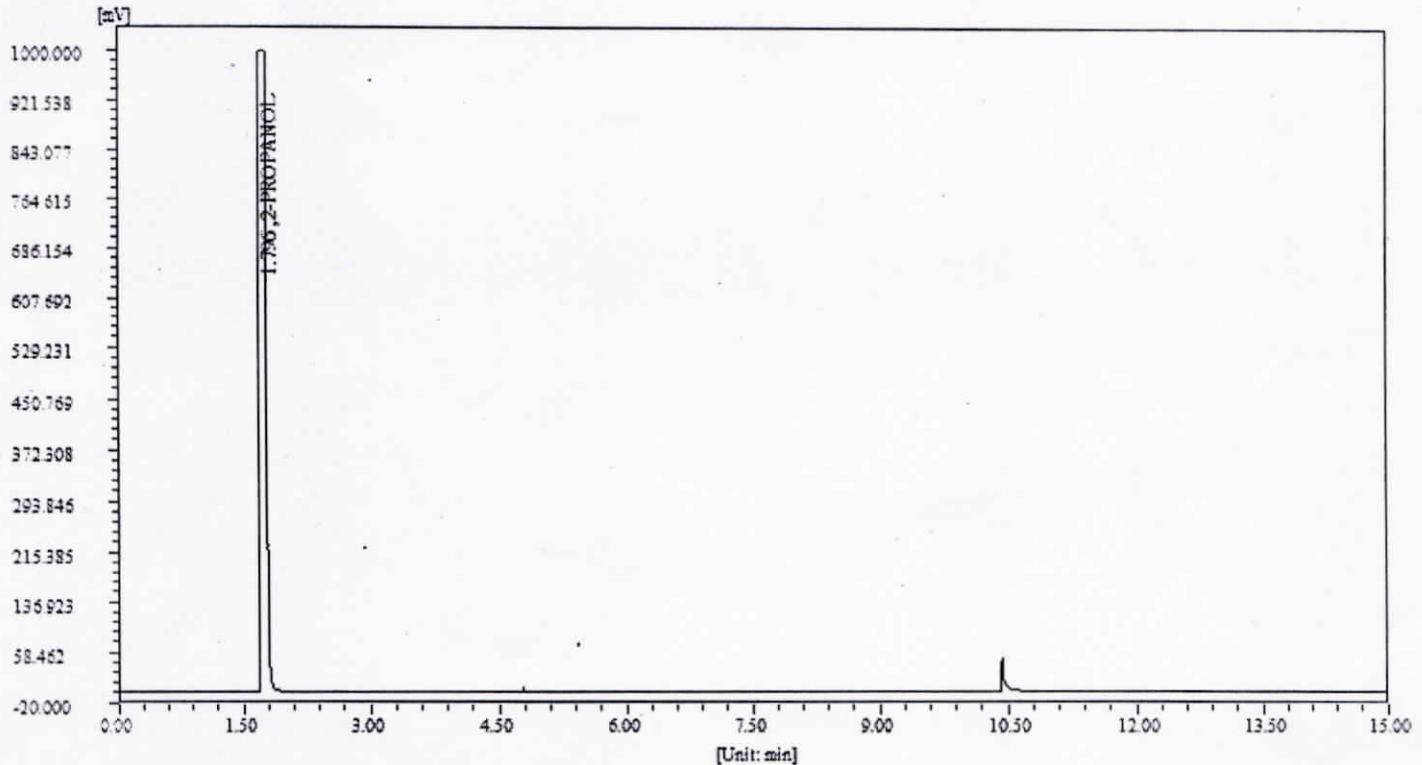
Creation date 04/04/25 11:16
Data array type Linear data array
Horizontal axis Wavenumber [cm-1]
Vertical axis %T
Start 0 cm-1
End 7000.34 cm-1
Data interval 0.964233 cm-1
Data points 7261

Creation RIYA SINGH
Review RINKAL SHAH
Approval RINKAL SHAH

INVOCHEM LABORATORY

TRIACETIN

Sample name: TRIACETIN User: 0001
 Exp unit: GC-08 Deliv unit: PRAJAKTA
 File name: Internal standard method
 Sample time: 2025-04-04 15:04:22
 Ana period: 15.00
 Spec-path: D:\GC DATA\2025\TRIACETIN\TRIAC-0001.src
 Introduces: ASSAY



Analysis result

No.	Comp name	Retent.time [min]	Half width [min]	Height [uV]	Area [uV*s]	Area [%]	Peak type
1	2-PROPANOL	1.796	0.083	1283642.9	6689103.2	100.0000	BB
Total:				1283642.9	6689103.2	100.0000	

Detector:- FID
 BLANK.Chromatogram:
 Report No:-
 Batch No:-

Analysed By/Date:-

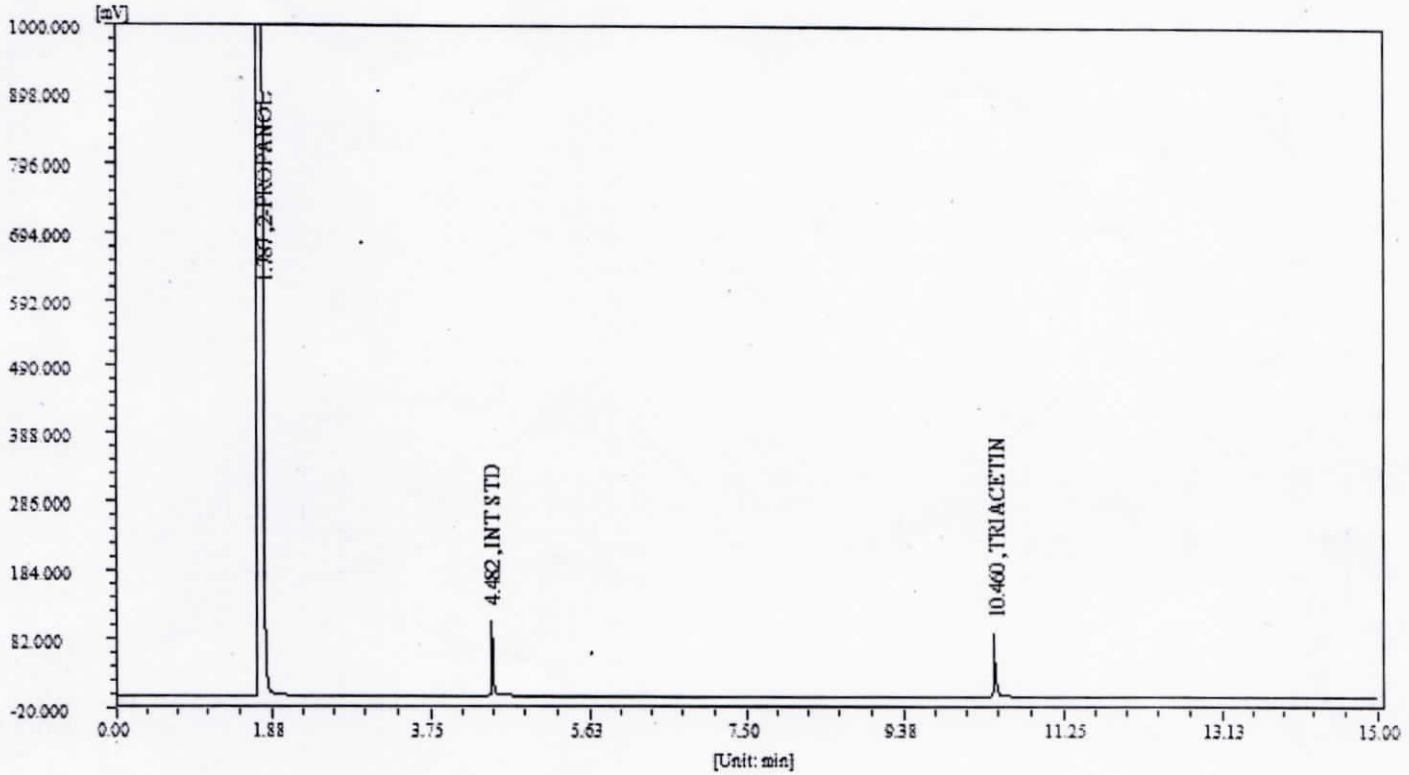
04/04/25

Checked By/Date:-

04/04/25

TRIACETIN

Sample name: TRIACETIN User: 0002
 Exp unit: GC-08 Deliv unit: PRAJAKTA
 File name: Internal standard method
 Sample time: 2025-04-04 15:25:41
 Ana period: 15.00
 Spec-path: D:\GC DATA\2025\TRIACETIN\TRIAC-0002.src
 Introduces: ASSAY



Analysis result

No.	Comp name	Retent.time [min]	Half width [min]	Height [uV]	Area [uV*s]	Area [%]	Peak type
1	2-PROPANOL	1.787	0.071	1283223.9	5820665.6	95.0431	BB
2	INT STD	4.482	0.018	110897.9	148760.1	2.4290	BB
3	TRIACETIN	10.460	0.019	93396.7	154810.7	2.5278	BB
Total:				1487518.6	6124236.1	100.0000	

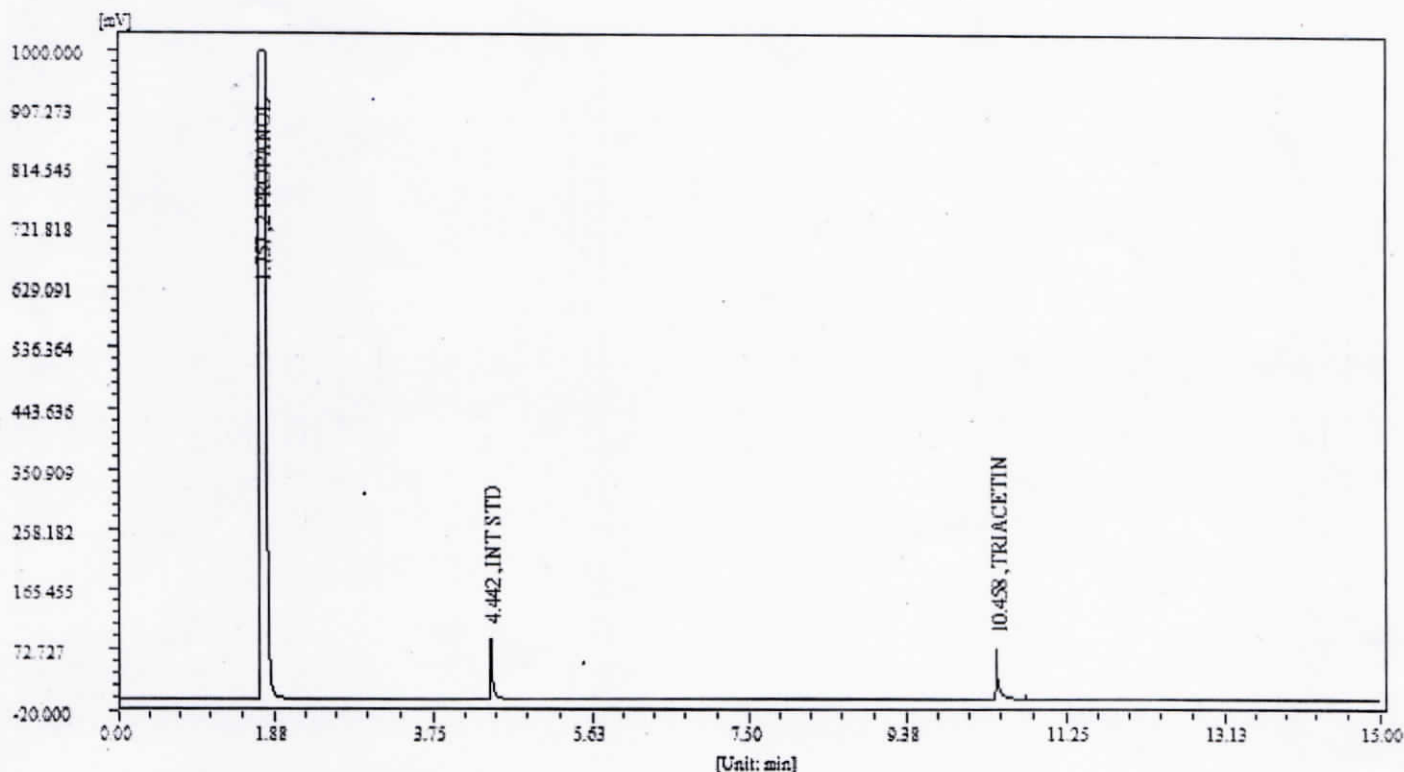
Detector:- FID
 STD.Chromatogram:01
 Report No:-
 Batch No:-

Analysed By/Date:- *P*
 04/04/25

Checked By/Date:- *Q*
 04/04/25

TRIACETIN

Sample name: TRIACETIN User: 0003
 Exp unit: GC-08 Deliv unit: PRAJAKTA
 File name: Internal standard method
 Sample time: 2025-04-04 15:46:39
 Ana period: 15.00
 Spec-path: D:\GC DATA\2025\TRIACETIN\TRIAC-0003.src
 Introduces: ASSAY



Analysis result

No.	Comp name	Retent.time [min]	Half width [min]	Height [uV]	Area [uV*s]	Area [%]	Peak type
1	2-PROPANOL	1.757	0.090	1289000.2	7028252.1	95.8821	SBV
2	INT STD	4.442	0.018	91498.7	152726.8	2.0836	TBB
3	TRIACETIN	10.458	0.017	77336.5	149122.6	2.0344	TBB
Total:				1457835.4	7330101.5	100.0000	

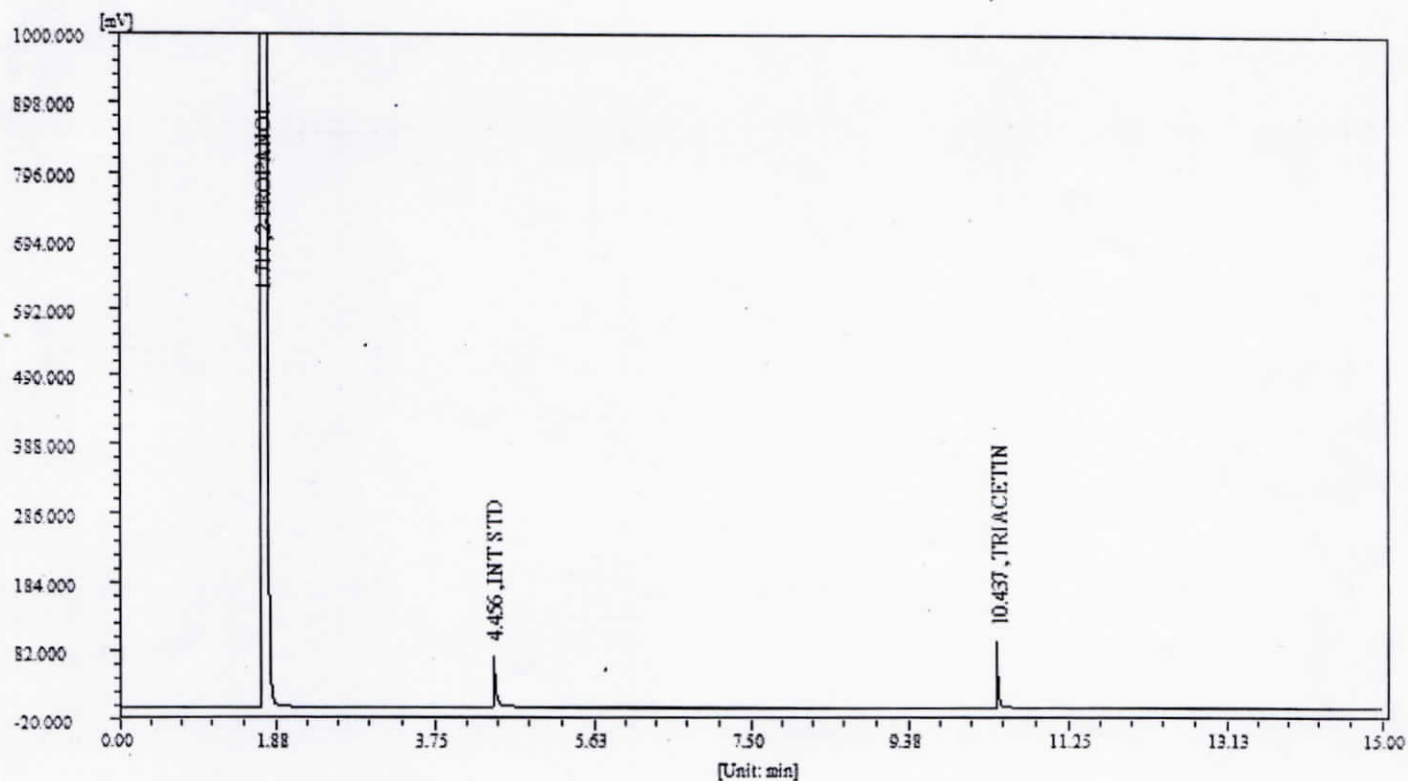
Detector:- FID
 STD.Chromatogram:02
 Report No:-
 Batch No:-

Analysed By/Date:- *[Signature]*
 04/04/25

Checked By/Date:- *[Signature]*
 04/04/25

TRIACETIN

Sample name: TRIACETIN User: 0004
 Exp unit: GC-08 Deliv unit: PRAJAKTA
 File name: Internal standard method
 Sample time: 2025-04-04 16:07:14
 Ana period: 15.00
 Spec-path: D:\GC DATA\2025\TRIACETIN\TRIAC-0004.src
 Introduces: ASSAY



Analysis result

No.	Comp name	Retent.time [min]	Half width [min]	Height [uV]	Area [uV*s]	Area [%]	Peak type
1	2-PROPANOL	1.717	0.084	1288940.7	6794807.3	95.9896	BB
2	INT STD	4.456	0.021	77444.3	144788.1	2.0454	BB
3	TRIACETIN	10.437	0.018	99677.8	139093.8	1.9650	BB
Total:				1466062.7	7078689.0	100.0000	

Detector:- FID
 STD.Chromatogram:03
 Report No:-
 Batch No:-

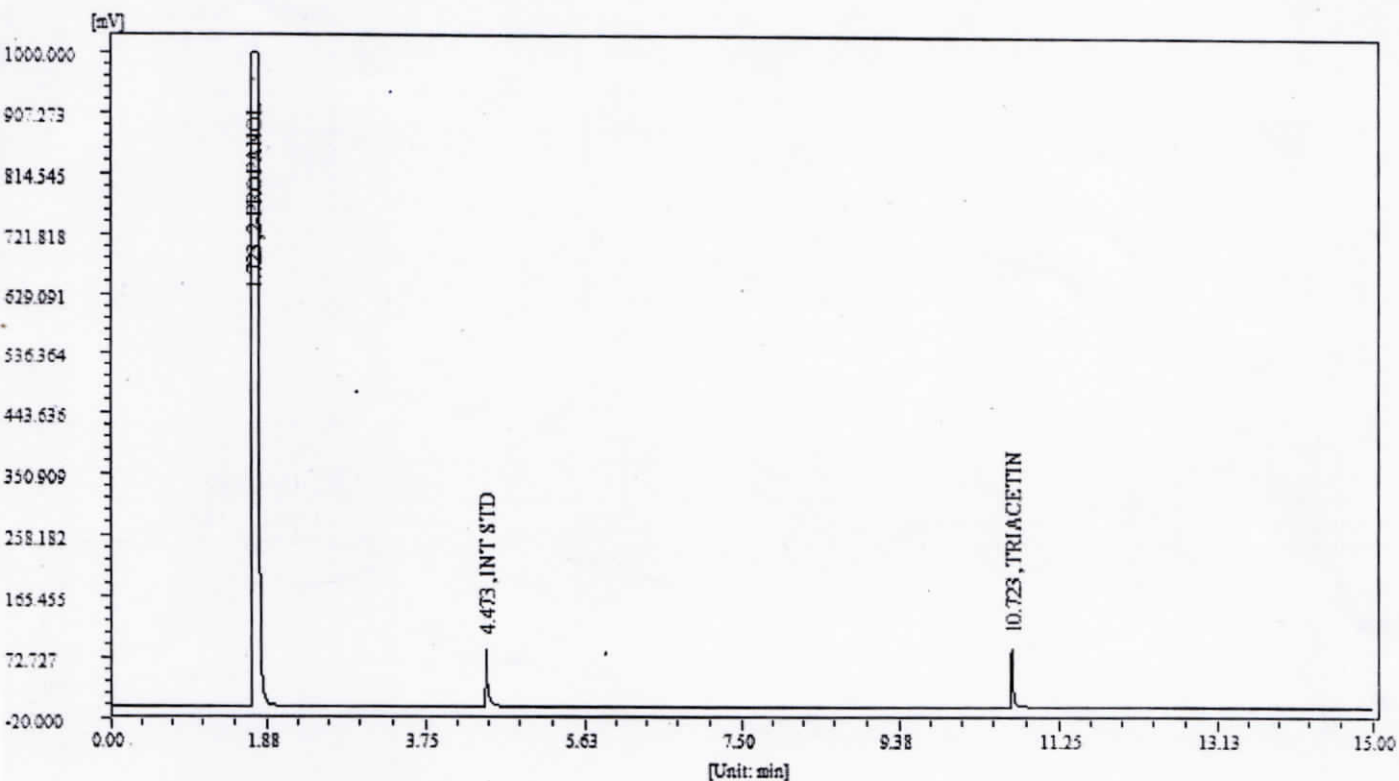
Analysed By/Date:-
 P
 04/04/25

Checked By/Date:-
 @
 04/04/25

INVOCHEM LABORATORY

TRIACETIN

Sample name: TRIACETIN User: 0005
 Exp unit: GC-08 Deliv unit: PRAJAKTA
 File name: Internal standard method
 Sample time: 2025-04-04 16:28:05
 Ana period: 15.00
 Spec-path: D:\GC DATA\2025\TRIACETIN\TRIAC-0005.src
 Introduces: ASSAY



Analysis result

No.	Comp name	Retent.time [min]	Half width [min]	Height [uV]	Area [uV*s]	Area [%]	Peak type
1	2-PROPANOL	1.723	0.080	1289835.2	6317508.1	95.6614	SBV
2	INT STD	4.473	0.017	89490.8	141692.3	2.1455	TBB
3	TRIACETIN	10.723	0.018	91495.6	144828.9	2.1930	TBB
Total:				1470821.7	6604029.2	100.0000	

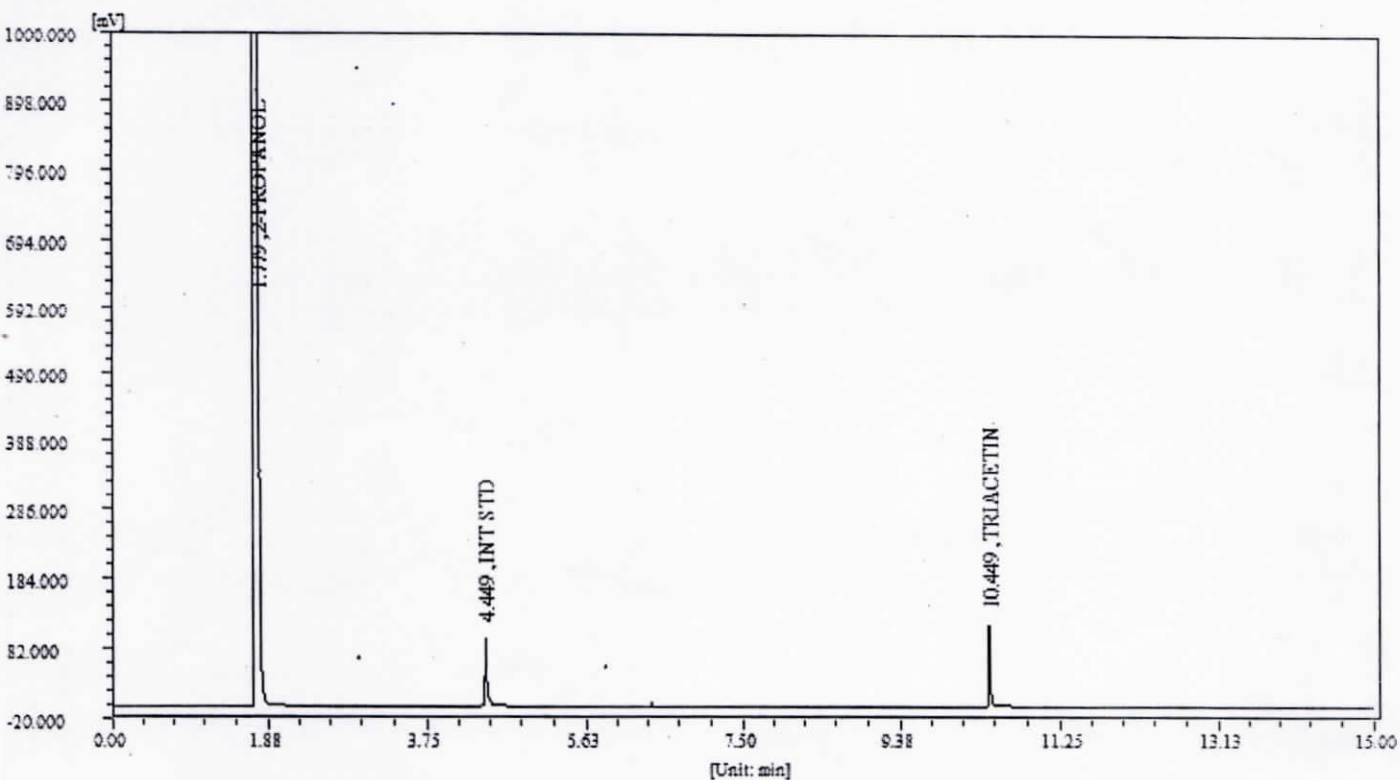
Detector:- FID
 STD.Chromatogram:04
 Report No:-
 Batch No:-

Analysed By/Date:-
 04/04/25

Checked By/Date:-
 04/04/25

TRIACETIN

Sample name: TRIACETIN User: 0006
Exp unit: GC-08 Deliv unit: PRAJAKTA
File name: Internal standard method
Sample time: 2025-04-04 16:49:11
Ana period: 15.00
Spec-path: D:\GC DATA\2025\TRIACETIN\TRIAC-0006.src
Introduces: ASSAY



Analysis result

No.	Comp name	Retent.time [min]	Half width [min]	Height [uV]	Area [uV*s]	Area [%]	Peak type
1	2-PROPANOL	1.779	0.072	1283327.6	5883436.0	95.4786	BB
2	INT STD	4.449	0.018	97855.2	132018.0	2.1424	BB
3	TRIACETIN	10.449	0.017	121280.0	146593.2	2.3790	BB
Total:				1502462.8	6162047.4	100.0000	

Detector:- FID
STD.Chromatogram:05
Report No:-
Batch No:-

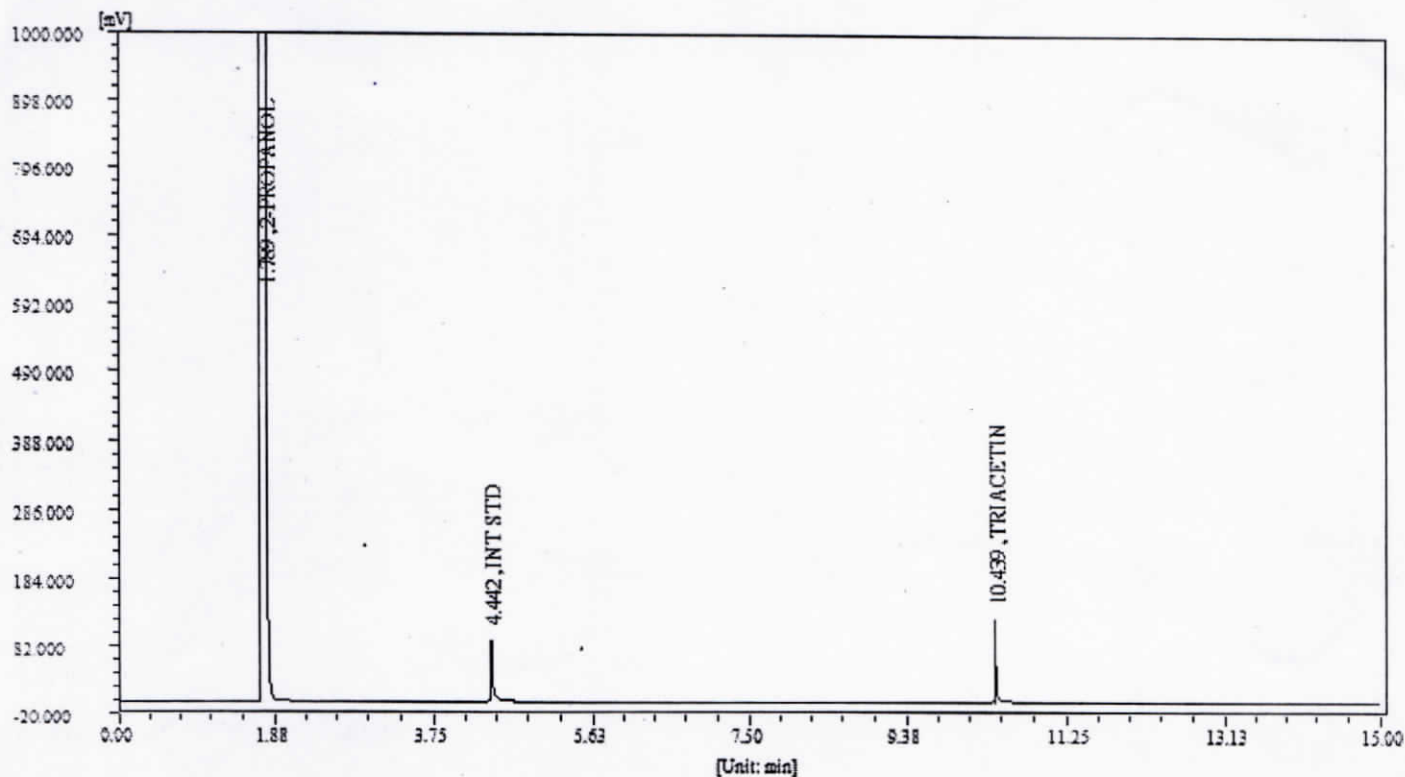
Analysed By/Date:- *P*
04/04/25

Checked By/Date:- *Q*
04/04/25

INVOCHEM LABORATORY

TRIACETIN

Sample name: TRIACETIN User: 0007
Exp unit: GC-08 Deliv unit: PRAJAKTA
File name: Internal standard method
Sample time: 2025-04-04 17:10:38
Ana period: 15.00
Spec-path: D:\GC DATA\2025\TRIACETIN\TRIAC-0007.src
Introduces: ASSAY



Analysis result

No.	Comp name	Retent.time [min]	Half width [min]	Height [uV]	Area [uV*s]	Area [%]	Peak type
1	2-PROPANOL	1.789	0.079	1285598.8	6084114.5	95.1355	SBV
2	INT STD	4.442	0.017	94680.3	154618.2	2.4177	TBV
3	TRIACETIN	10.439	0.016	126984.6	156476.9	2.4468	TVB
Total:				1507263.7	6395209.8	100.0000	

Detector:- FID
Spl.Chromatogram:
Report No:-R442375
Batch No:-PC/25/851/797-24/25/Q248/01

Analysed By/Date:-

P
04/04/25

Checked By/Date:-

Q
04/04/25