

Certificate of Analysis

Eucaliptol

PurCert Standard for GC
(Secondary Reference Standard)

Product Number	PSR41195	CAS No.	470-82-6
Brand	PureSynth	Lot No.	E41195S1023
Molecular Formula	C ₁₀ H ₁₈ O	Date of Mfg.	October.2023
Molecular Weight	154.25 g/mol	Date of Exp.	September.2027

Test	Specification	Result
Description	Colorless liquid	Colorless liquid
Assay (GC-FID)	≥ 99.5 %	99.78 %
Water (By KF)	NMT 0.3000 %	0.2728 %
Identification by ¹ H NMR	Conforms to structure	Conforms
Identification by GC-MS	Conforms to molecular mass	Conforms
Identification by IR	Conforms to structure	Conforms

***Traceable to USP Reference Standard 1268900, Lot no: R017H0**

Storage Condition: Store at room temperature and keep the container tightly closed.

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

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Assay by GC-FID

METHOD: GC- FID conditions:

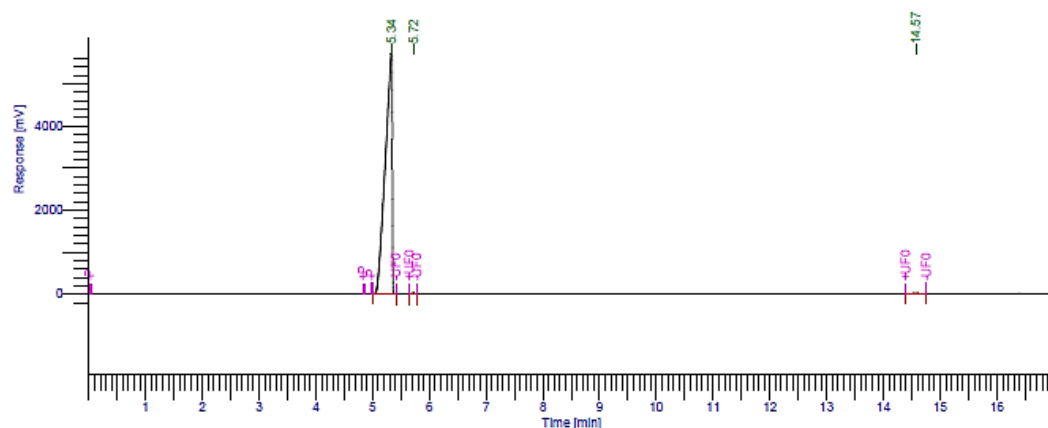
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

Instrument: PerkinElmer, GC 2014,

Detector: FID, **Carrier gas:** Nitrogen

Temp programming: Initial 50°C hold for 1min, 5° C Ramp/ min., 100 °C hold for 1 min., 25°C Ramp up to 250°C hold for 2 min., Run time 20 min.

Software Version	: 6.3.4.0700	Date	: 27-12-2023 16:31:16
Operator	: manager	Sample Name	: EUCALIPTOL-E41195S1023
Sample Number	: 001	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 0/21
Instrument Name	: Clarus 690	Channel	: A
Instrument Serial #	: 690S23050206	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 17.14 min
Sampling Rate	: 12.5000 pts/s	Area Reject	: 0.000000
Sample Volume	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 1
Data Acquisition Time	: 27-12-2023 15:57:32		



GC Reports

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		5.336	49015673.51	5.97e+06	99.78
2		5.721	40907.08	18059.53	0.08
3		14.569	68820.05	11047.60	0.14
			49125400.64	6.00e+06	100.00

Warning -- Signal level out-of-range in peak

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Purity by GC-FID: 99.78 %

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IDENTIFICATION TESTS

GC-MS Spectrum:

METHOD: GC-MS conditions:

Column: Agilent Technologies, Elite -5MS, 30 m X 0.25 mm, 1.0micron

Instrument: Perkin Elmer, Carrier gas: Helium

Source Temp.: 230°C, Transfer line: 250°C

Inlet Temp.: 180°C, Diluent: Methanol

Source energy: 70eV

Mass by GC-MS:

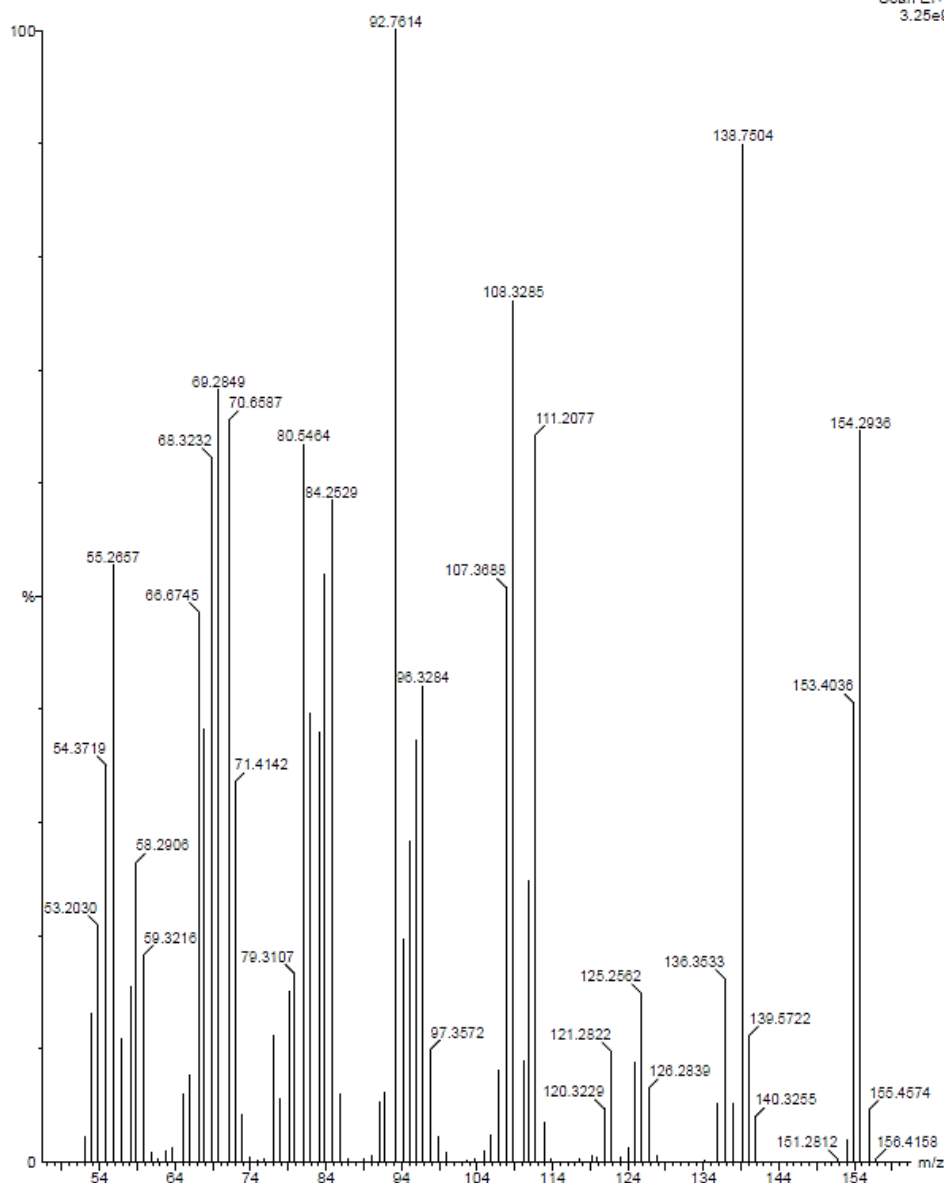
Product Name: Eucaliptol

Product Code: PSR41195

EUCALIPTOL-E41195S1023

, 27-Dec-2023 + 13:42:46

Scan EI+
3.25e9



Identification by GC-MS: Conforms to molecular mass

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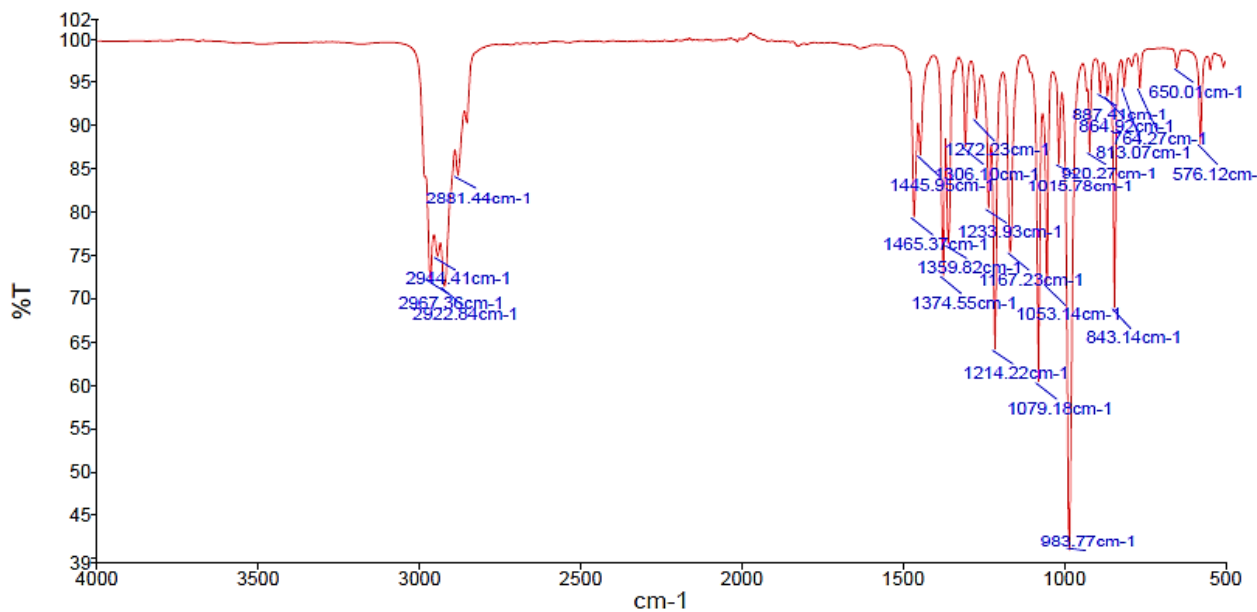
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Infrared spectrum:

Product Name: Eucaliptol

Product Code: PSR41195

Analyst
Date



AR23000181-Eucaliptol-E4119551023_1 Sample 001 By Analyst Date Wednesday, December 27 2023

Source Spectra Results		
Spectrum Name	Number Of Peaks	
AR23000181-Eucaliptol-E4119551023_1	25	
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	2967.36	72.28
2	2944.41	74.92
3	2922.84	71.45
4	2881.44	84.27
5	1465.37	79.50
6	1445.95	86.65
7	1374.55	72.73
8	1359.82	76.29
9	1306.10	87.61
10	1272.23	90.86
11	1233.93	80.48
12	1214.22	64.23
13	1167.23	75.44
14	1079.18	60.46
15	1053.14	71.79
16	1015.78	85.62
17	983.77	40.98
18	920.27	86.98
19	887.41	93.78
20	864.92	93.44
21	843.14	69.01
22	813.07	94.47
23	764.27	94.39
24	650.01	96.70
25	576.12	87.93

Identification by IR: Conforms to structure

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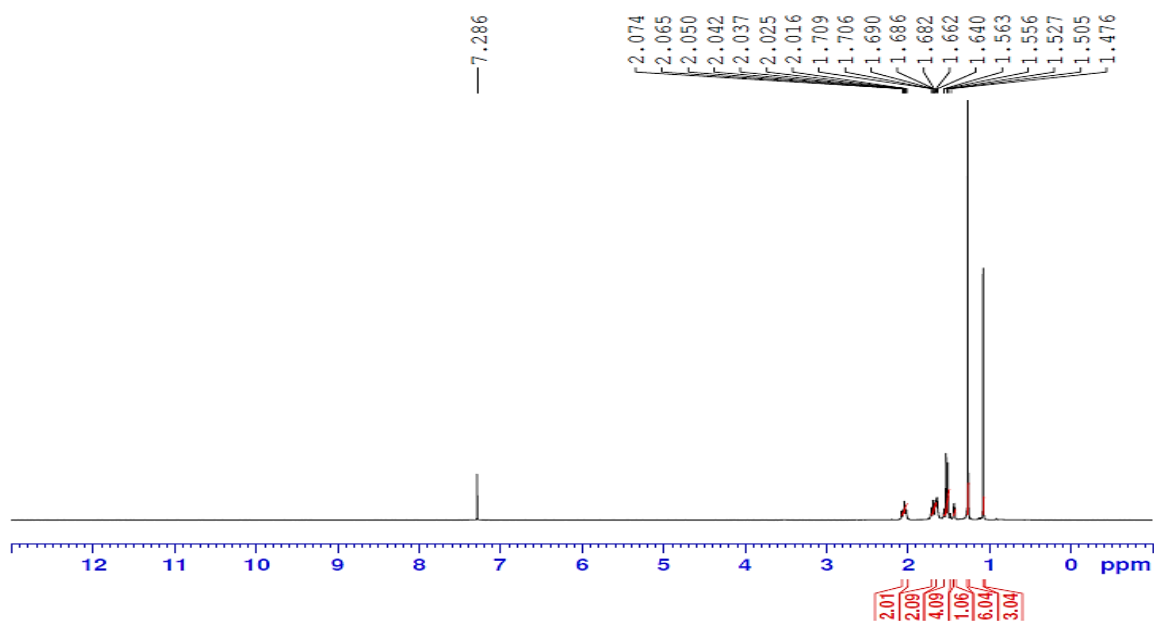
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¹H NMR Spectrum:

Product Name: Eucaliptol

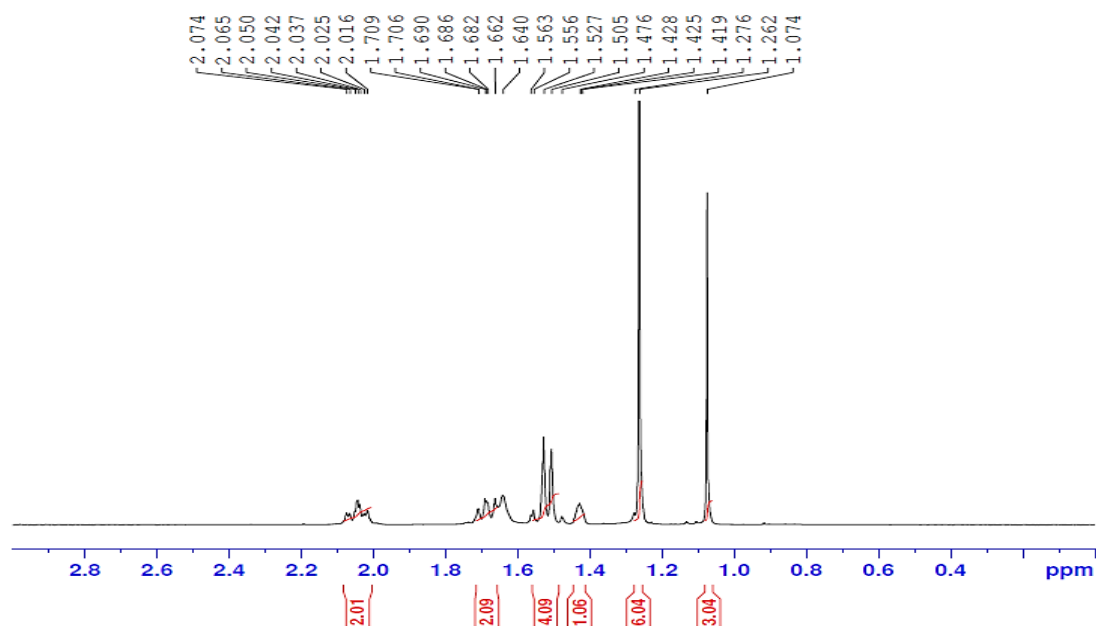
Product Code: PSR41195

Eucaliptol
B.NO-E41195S1023
1H-NMR in CDCL3



¹H NMR Spectrum: Expansion

Eucaliptol
B.NO-E41195S1023
1H-NMR in CDCL3



Identification by ¹H NMR: Conforms to structure

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Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR41195) = **0.2728 %**

Approved By
Head - Technical

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