

JEERAKADYARISHTA

Monograph No. – 100055 ver 3.0

Issue No: 03

Date of Issue: 19/04/2017

Text Reference : Ayurvedic Formulary of India (AFI) Part I - 1:16

Amendment No : 02

Amendment Date : 08/07/2024

Shelf Life: 10 years

Description

Dark Brown colour liquid,
Characteristic odour of Jeera
Prominent & Sweet followed by
slightly astringent in taste.



pH

3.5 – 5.0

Specific Gravity at 25°

1.05 -1.20 g/ml

Brix

30 – 45 %

Alcohol content

5 – 11 % v/v

Thin Layer Chromatography Solvent system

Toluene : Ethyl acetate
(9.0 : 1.0)

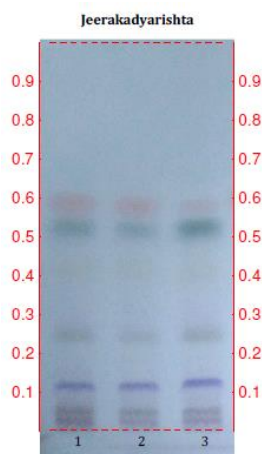
Details

Solvent of Extraction – n-Hexane

Solvent front – 90 mm

Total No. of Major spots – 4

Detection – After spraying with Anisaldehyde Sulfuric acid

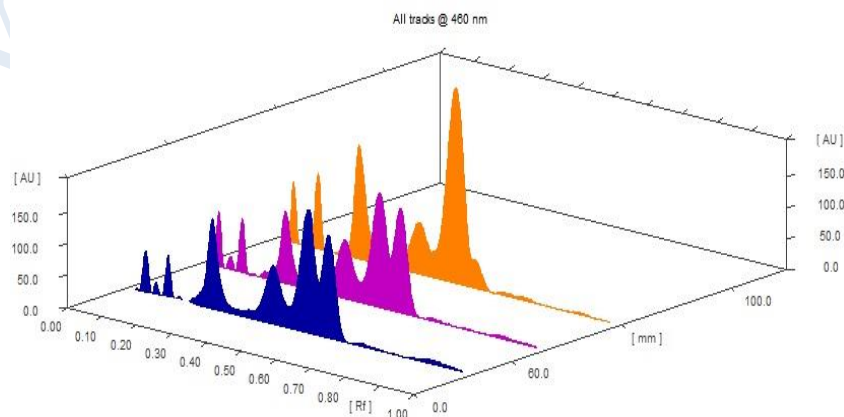


Major Spots

Colour

Approx. Rf.

1	Violet	0.13
2	Gray	0.25
3	Greenish Gray	0.52
4	Bright orange	0.59



3D Peak Display of Jeerakadyarishta at 460 nm

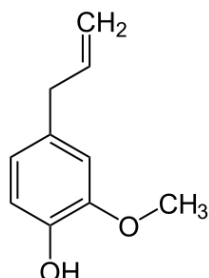
Confidential - photocopy prohibited

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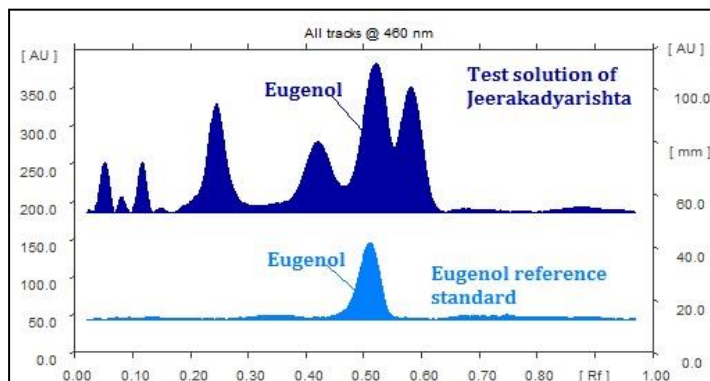
Note : † : These extra tests can be performed on every batch at extra cost. Tests can be ascertained on request.

HPTLC Profile[†]

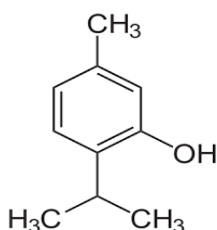
i) Eugenol



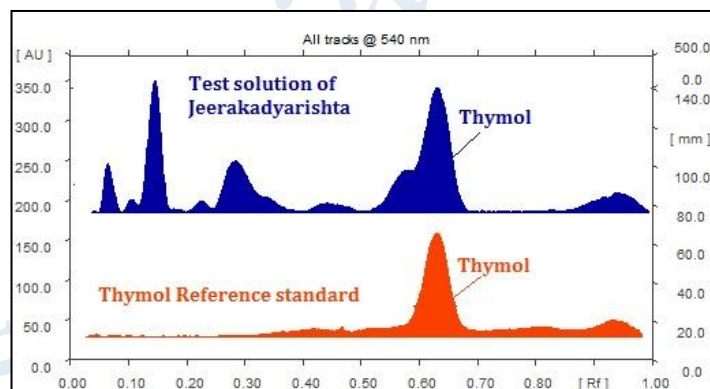
When examined in the range of 400 nm to 700 nm, the test solution shows absorption maxima at about 460 nm corresponding with Eugenol standard.



ii) Thymol



When examined in the range of 400 nm to 700 nm, the test solution shows absorption maxima at about 540 nm corresponding with Thymol standard.



Heavy metal

Lead (Pb)	NMT 10 ppm
Mercury (Hg)	NMT 1 ppm
Arsenic (As)	NMT 3 ppm
Cadmium (Cd)	NMT 0.3 ppm
<i>E. coli</i>	Absent/ml
<i>P. aeruginosa</i>	Absent/ml
<i>Salmonella sp.</i>	Absent/ml
<i>Staphylococcus sp.</i>	Absent/ml
Total Microbial Plate Count (TPC)	NMT 10 ⁵ c.f.u./ml
Total Yeast & Mould Count (TYMC)	NMT 10 ³ c.f.u./ml
Pesticide Residue[†] (OC+OP)	Complies as per API
Aflatoxins B1,B2,G1,G2[†]	Complies as per API