



### CERTIFICATE OF ANALYSIS

<b>Product Name :</b> Cardamom Oil	<b>Botanical name:</b> <i>Elettaria cardamomum</i>
<b>Sample Name :</b> Cardamom Oil	<b>Origin:</b> India
<b>Company Name :</b> Navnetri Gamika Pvt. Ltd., Gurgaon	<b>Batch Number:</b> NG/CA/22-23_001
<b>Temp. :</b> 20°C	<b>Manufacturing/Distillation Method :</b> Steam Distillation
<b>Sample Test Date :</b> 28 April 2022	<b>Part Used:</b> Seed of <i>Elettaria cardamomum</i> (L.) Maton
<b>Lab Operator :</b> Ms. Sanju Tyagi	<b>Manufacturing Date :</b> April 2022
	<b>Expiry Date :</b> April 2025
	<b>Storage :</b> Dark and Cool Place in Glass or Aluminum container

S.No.	Parameters	Unit	Result
1	Colour	-	Light Yellow to Orange
2	Appearance	-	Liquid
3	Odour	-	Fruity, Herbaceous
4	Flash-point °C :	-	58°C
5	Refractive Index (20°C)	-	1.4695
6	Specific Gravity (20°C)	-	0.9345
7	Optical Rotation (20°C)	-	(+) 22° - (+)44°
8	CAS Number	-	8000-66-6
9	INCI Name :	-	Elettaria cardamomum Seed Oil

### CHROMATOGRAPHICAL PROPERTIES

S.No.	Parameters	R.T	AREA
1	α- Pinene	5.34	1.52
2	γ-Terpinene	6.21	2.86
3	Cymene	7.48	1.31
4	dl-Limonene	7.6	2.04
5	Eucalyptol	7.71	35.08
6	Terpinen-4-ol	11.69	1.15
7	α- Terpeneol	12.1	1.16
8	α- Terpinyl acetate	16.21	54.88

\* Maximum concentration determined by the best of our knowledge based on analytical control by Gas Chromatography (DB-WAX Capillary column L 20 m, d 100 µm x 0,2 µm, Polar stationary phase, T°C oven 60°C at 248°C with 12°C / mn, T°C injector 2 75°C, T°C detector 275°C, Detector FID, Split injection 0,2 µl, Carrier gas Hydrogen - 0,7 ml/mn)

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

28-04-2022

Navnetri Gamika Pvt. Ltd, Q-114A, N.P.V.-2, GGN-HR

For NAVNETRI GAMIKA PVT. LTD.

Authorized Signature

NG/CA/22-23

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