



Certificate of Analysis

<u>PRODUCT NAME</u>	: GALANGAL OIL
<u>GEOGRAPHICAL ORIGIN</u>	: INDIA
<u>MODE OF EXTRACTION</u>	: STEAM DISTILLED
<u>DISTILLED OR EXPRESSED</u>	
<u>ORGAN</u>	: ROOT
<u>REF.NO./BATCH NO.</u>	: 4337006
<u>BEST BEFORE END</u>	: SEPTEMBER 2021

ANALYSE PHYSICAL PARAMETERS

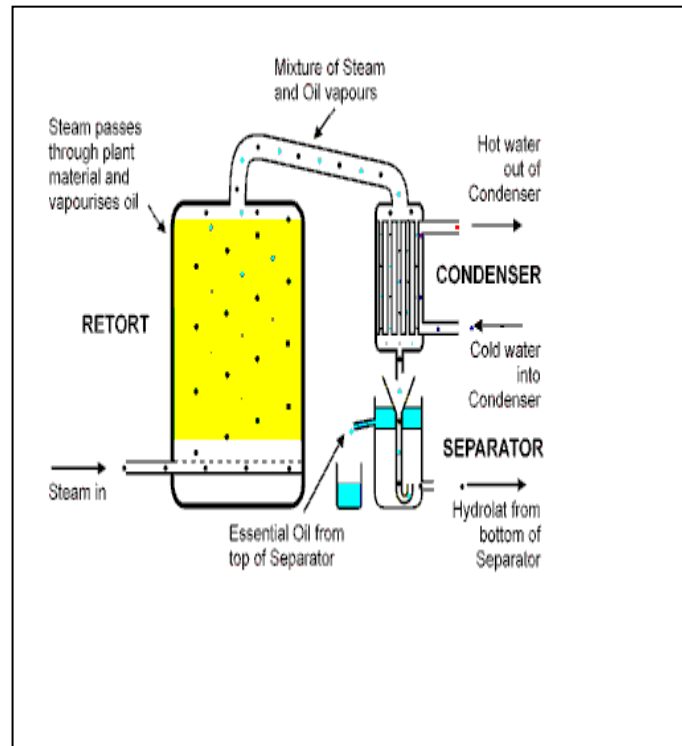
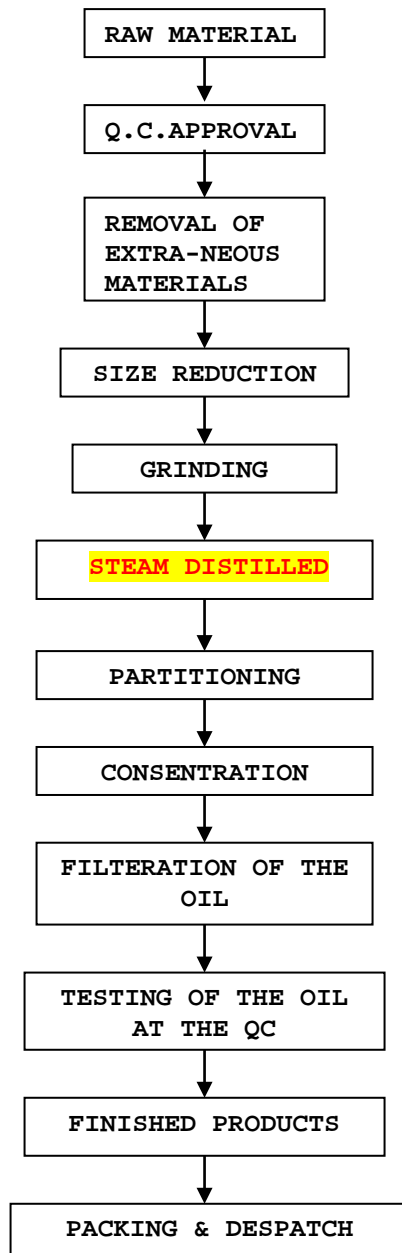
<u>PRODUCT/STANDARD</u>	: GALANGAL OIL
<u>DESCRIPTION</u>	: LIGHT YELLOW
<u>ODOUR</u>	: CAMPHOR LIKE ODOR
<u>OPT.ROTATION</u>	: -1.92
<u>REF.INDEX</u>	: 1.5124
<u>SP.GRAVITY</u>	: 0.9685
<u>SOLUBILITY</u>	: SOLUBLE IN OIL INSOLUBLE IN WATER
<u>STABILITY</u>	: STABLE UNDER NORMAL CONDITIONS
<u>REACTIVITY</u>	: AVOID OXIDIZING MATERIALS
<u>STORAGE INSTRUCTIONS</u>	: SHOULD BE STORED BELOW 20 ⁰ C IN COOL, DRY, WELL VENTILATED PLACE IN FULLY & TIGHTLY SEALED CONTAINERS. PROTECTED FROM LIGHT & KEEP AWAY FROM ANY SOURCE OF IGNITION/FIRE.



COSMETICS ALLERGENS LIST GALANGAL ESSENTIAL OIL

ALLERGENS	CAS NO.	PERCENTAGE IN THE PRODUCT
ANISYL ALCOHOL	105-13-5	NO
BENZYL ALCOHOL	100-51-6	NO
CINNAMYL ALCOHOL	104-54-1	NO
BENZYL BENZOATE	120-51-4	NO
BENZYL CINNAMATE	103-41-3	NO
BENZYL SALICYLATE	118-58-1	NO
CINNAMAL	104-55-2	NO
CITRAL	5392-40-5	NO
CITRONELLOL	106-22-9	NO
COUMARIN	91-64-5	NO
D-LIMONENE	5989-27-5	NO
EUGENOL	97-53-0	NO
FARNESOL	4602-84-0	NO
GERANIOL	106-24-1	NO
ISOEUGENOL	97-54-1	NO
LINALOOL	78-70-6	NO
TREE MOSS	90028-67-4	NO
OAK MOSS	90028-68-5	NO
PHENYL ACETALDEHYDE	122-78-1	NO
AMYL CINNAMIC ALCOHOL	101-85-9	NO
AMYL CINNAMAL	122-40-7	NO
GAMMA METHYL IONONE	127-51-5	NO
HEXYL CINNAMALDEHYDE	101-86-0	NO
HYDROXYCITRONELLAL	107-75-5	NO
LILIAL	80-54-6	NO
LYRAL	31906-04-4	NO
METHYL HEPTINE CARBONATE	111-12-6	NO

PROCESS FLOW CHART GALANGAL





NON-GMO CERTIFICATE

PRODUCT NAME: **Galangal Essential Oil**

To the best of our knowledge, the products listed below are not derived from Genetically Modified starting Raw materials or additives that are derived from Genetically Modified Organism and do not contain detectable of Genetically Modified material(known as PCR negative).It is our understanding the EU labeling requirements are based on the presence of detectable level of transgenic material based on this ,the products will not on it shown, require the labeling of these food stuffs and food ingredients as indicated in IEC.NO.: 0690001118 & FDA.REG.NO. : 14936438988 on the authorization, labeling and trace availability of Genetically Modified Organism in Food and Feed.



IFRA CERTIFICATE

PRODUCT: GALANGAL OIL

<u>CONSTITUENT</u>	<u>IFRA</u>	<u>CAS NUMBER</u>	<u>EINECS NUMBER</u>	<u>RANGE</u>
alpha-iso-Methylionone	NO	127-51-5	-----	NOT DETECTED
Amyl Cinnamal	YES	122-40-7	204-541-5	NOT DETECTED
Amyl Cinnamyl Alcohol	YES	101-85-9	202-982-8	NOT DETECTED
Anisyl Alcohol	NO	1331-81-3	215-561-9	NOT DETECTED
Benzyl Alcohol	NO	100-51-6	202-859-9	NOT DETECTED
Benzyl Benzoate	NO	120-51-4	204-402-9	NOT DETECTED
Benzyl Cinnamate	NO	103-41-3	203-109-3	NOT DETECTED
Benzyl Salicylate	NO	118-58-1	204-262-9	NOT DETECTED
Butylphenyl Methylpropional (Lilial)	NO	80-54-6	-----	NOT DETECTED
Cinnamal	YES	104-55-2	203-213-9	NOT DETECTED
Cinnamyl Alcohol	YES	104-54-1	203-212-3	NOT DETECTED
Citral	YES	5392-40-5	226-394-6	NOT DETECTED
Citronellol	NO	106-22-9	203-375-0	NOT DETECTED
Coumarin	NO	91-64-5	NOT ALLOCATED	NOT DETECTED
Eugenol	YES	97-53-0	202-589-1	NOT DETECTED
Farnesol	YES	4602-84-0	225-004-1	NOT DETECTED
Evernia Furfuraceae (Tree Moss) Extract	NO	90028-67-4	-----	NOT DETECTED
Evernia Prunastri (Oak Moss) Extract	NO	90028-68-5	-----	NOT DETECTED
Geraniol	NO	106-24-1	203-377-1	NOT DETECTED
Hexyl Cinnamal	YES	101-86-0	202-983-3	NOT DETECTED
Citronellal Hydrate	YES	107-75-5	203-518-7	NOT DETECTED
Iso-Eugenol	YES	97-54-1	202-590-7	NOT DETECTED

Butyl Phenyl Methyl Propinal	YES	80-54-6	201-289-8	NOT DETECTED
Limonene	YES	5989-27-5	227-813-5	NOT DETECTED
Linalool	YES	78-70-6	201-134-4	NOT DETECTED
Hydroxyisohexyl-3-Cyclohexene	NO	31906-04-4	250-863-4	NOT DETECTED
Methyl Heptin Carbonate	YES	111-12-6	203-836-6	NOT DETECTED
Methyl Ionone	YES	127-51-5	204-846-3	NOT DETECTED
Methyl Eugenol	YES	93-15-2	-----	NOT DETECTED
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral	NO	31906-04-4	-----	NOT DETECTED
Methyl 2-Octynoate	NO	111-12-6	-----	NOT DETECTED

Madar Corporation Certifies that the above mentioned fragrance product is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION [IFRA 48th Amendment (June '15)], provided the fragrance is used in the following application(s) at the following maximum concentration level(s):

APPLICATION	MAXIMUM USAGE LEVEL
1.A - Lip Products of all Types (Solid & Liquid) lipsticks, Balms & Wax (Clear or Colored)	NOT Allowed
1.A - Toys	NOT Allowed
2 - Body Sprays & Mists, Men & Women (intended or labeled for use in axillae)	4.0%
2 - Deodorant and Antiperspirant Products of all types (spray, stick, roll-on, under-arm & body, etc.)	4.0%
2 - Fragranced Bracelets	4.0%
2 - Nose Pore Strips	4.0%
3.A - Hydroalcoholic Products Applied to Recently Shaved Skin (EDT)	10.0%
3.B - Hydroalcoholic Products Applied to Recently Shaved Skin (Fine Fragrance)	10.0%
3.C - Baby Creams, Lotions, Oils	10.0%
3.C - Body Paint for Children	10.0%
3.C - Eye Products of all Types (eye shadow, mascara, eyeliner, eye make-up, make-up, etc.) including eye care	10.0%
3.C - Men's Facial Creams, Balms	10.0%
3.D - Tampons	10.0%

4.A - Hydroalcoholic Products Applied To Unshaved Skin (EDT)	10.0%
4.A - Ingredients of Perfume Kits	10.0%
4.A - Scent Pads, Foil Packs	10.0%
4.A - Scent Strips for Hydroalcoholic Products	10.0%
4.B - Hydroalcoholic Products Applied To Unshaved Skin (Fine Fragrance)	10.0%
4.C - Body Creams, Oils, Lotions of all types (except baby products)	10.0%
4.C - Body Paint for Adults (excludes Childrens Products)	10.0%
4.C - Body Sprays (Not intended for Axillae)	10.0%
4.C - Foot Care Products	10.0%
4.C - Fragrance Compounds for Cosmetic Kits	10.0%
4.C - Hair Deodorant	10.0%
4.C - Hair Styling Aids, Hair Sprays of all Types (pumps, aerosol sprays, etc.)	10.0%
4.D - Fragrancing cream & Solid Perfumes	10.0%
5 - Baby Powder and Talc	10.0%
5 - Dry or Waterless Shampoo	10.0%
5 - Facial Masks	10.0%
5 - Hair Permanent & Chemical Treatments (e.g. relaxers) but not hair dyes	10.0%
5 - Hand Cream	10.0%
5 - Hand sanitizers	10.0%
5 - Wipes or Refreshing Tissues for Face, Neck, Hands, Body	10.0%
5 - Women's Facial Creams/Facial Make-up	10.0%
6 - Mouthwash, Including Breath Sprays	NOT ALLOWED
6 - Toothpaste	NOT ALLOWED
7.A - Baby Wipes	8.0%
7.A - Intimate (Feminine)Wipes	8.0%
7.A - Toilet Wipes & Paper	8.0%
7.B - Insect Repellent (intended to be applied to the skin)	8.0%
8.A - Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners)	10.0%
8.A - Make-up Removers of all types (not including face cleansers)	10.0%
8.A - Nail Care	10.0%
8.A - All Powders & Talcs (Except baby Powders & Talcs)	10.0%
8.B - Hair Dyes	10.0%
9.A - Bath Gels, Foams, Mousses, Salts, Oils & other products added to bathwater	10.0%
9.A - Body Washes of all types (including baby washes) & Shower Gels of all Type	10.0%
9.A - Conditioner (Rinse-Off)	10.0%

9.A - Depilatory	10.0%
9.A - Face Cleansers of all types (washes, gels, scrubs, etc.)	10.0%
9.A - Shampoos of all types (including baby shampoos)	10.0%
9.A - Shaving Creams of all types (stick, gels, foams, etc.)	10.0%
9.A - Soap Liquid & Bar (Toilet Soap)	10.0%
9.B - Feminine Hygiene - Pads & Liners	10.0%
9.B - Wheat Bags	10.0%
9.C - Air fresheners sprays (incl. Room Sprays, Aerosols & Pump; excl. deodorant, hair styling aids, & animal)	10.0%
9.C - Facial Tissues, Napkins, Paper Towels & Toilet Paper	10.0%
10.A - Dry Cleaning Kits	10.0%
10.A - Fabric Softeners of all types including fabric softener sheets	10.0%
10.A - Hand Dishwashing Detergent including concentrates	10.0%
10.A - Handwash Laundry Detergents of all types including concentrates	10.0%
10.A - Hard Surface Cleaners (Bathroom & Kitchen Cleansers & Furniture polish, etc.)	10.0%
10.A - Machine Wash Laundry Detergent & Bleach (liquids, powders, tablets, etc.) including laundry bleach and concentrates	10.0%
10.A - Other Household Cleaning Products (fabric, soft surface & Carpet Cleaners)	10.0%
10.A - Shampoos for pets	10.0%
10.B - Diapers	10.0%
10.B - Scented Gloves or Socks	10.0%
10.B - Toilet seat wipes	10.0%
11 - Air Delivery Systems (Automated or with Manual Activator) with no contact with dispensing port.	No Restriction
11 - Air Fresheners (Solids, Liquid or Closed systems). Excluding aerosol products	No Restriction
11 - All non-skin or incidental skin contact	No Restriction
11 - Animal sprays & Cat Litter	No Restriction
11 - Candles	No Restriction
11 - Concentrated Aerosol Air Fresheners for metered systems	No Restriction
11 - Deodorizers/Maskers not intended for skin contact (Fabric drying machine deodorizers, carpet powders)	No Restriction
11 - Floor Wax	No Restriction
11 - Fuels & Paints	No Restriction
11 - Insecticides (mosquito coil, paper, electrical, for clothing) excluding aerosols	No Restriction
11 - Joss Sticks, Incense, Crystals/Stones, Blotters, Sachets & Fragrance Lamp Ring	No Restriction

11 - Liquid Air Freshener Refills (Cartridge & Non-Cartridge Systems)	No Restriction
11 - Machine Dishwash detergent and deodorizers	No Restriction
11 - Machine only Laundry Detergent (e.g. liquitabs)	No Restriction
11 - Odored Distilled Water (that can be added to steam irons)	No Restriction
11 - Plastic Articles (excluding toys)	No Restriction
11 - Reed Diffusers & Liquid Refills (Cartridge & Non-Cartridge Systems)	No Restriction
11 - Scent delivery systems using dry air technology that releases a fragrance without sprays, aerosols or heated oils	No Restriction
11 - Scent Pack	No Restriction
11 - Scratch and Sniff	No Restriction
11 - Shoe Polishes	No Restriction
11 - Toilet Blocks	No Restriction
11 - Treated Textiles (starch sprays, fabric treated with fragrance after wash, deodorizers for textiles, tights with moisturizers)	No Restriction

The above mentioned fragrance is in compliance with the standards of the International Fragrance Association, provided the fragrance is used in the above application(s) at the noted maximum concentration level(s). This fragrance contains ingredients which are NOT considered GRAS, Generally Regarded as Safe as a Flavor Ingredient. It is the ultimate responsibility of the customer to ensure the safety of the final product containing this fragrance, by further testing, if necessary. For all other applications, or use at higher concentration levels, a new evaluation will be required.



Material Safety Data Sheet

1. PRODUCT/ SUPPLIER IDENTITY

Product Identifier

Product Name: **Galangal Essential Oil**
Product Code: OEGALA

Details of supplier of the material safety data sheet

Company Name: Madar Corporation
19 Sandealth Industrial Estate
Fordingbridge
Hampshire SP6 1PA
Telephone Number: 01425 655555
Fax Number: 01425 658182
Email: technical@madarcorporation.co.uk

2. HAZARDOUS IDENTIFICATION

Non-hazardous

3. COMPOSITION/ INFORMATION ON INGREDIENTS

N/A

4. FIRST AID MEASURES

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Skin contact: Remove contaminated clothing and wash thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact: May cause irritation to eyes. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Recommended: Foam or dry powder. For safety reasons do not use full water jet.
Special Procedures: Not applicable.
Advice for Firefighters: Closed containers may build up pressure at elevated temperatures. Avoid inhalation of fumes or vapours. Use appropriate respiratory protection. Prevent run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid inhalation and direct contact with skin and eyes. Use individual protective equipment in case of major spillages.
Environmental Precautions: Keep away from drains, soils, surface and ground waters.

7. HANDLING & STORAGE

Storage Containers: HDPE container or Aluminium bottles.
Storage Conditions: Store in tightly closed original container in a cool, dry and ventilated area away from heat sources and protected from light.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory Protection: Avoid breathing product vapour.
Ventilation: Ensure good ventilation of working area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Light yellow
Odour:	Camphor like
Specific Gravity @ 20°C:	0.9679
Refractive Index @ 20°C:	1.5114
Flash Point (°C):	105
Boiling Point (°C):	89
Optical Rotation:	-0.47
Solubility:	Insoluble in water

10. STABILITY & REACTIVITY

Reactivity:	It presents no significant reactivity hazards by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.
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11. TOXICOLOGICAL INFORMATION

Data not available.

12. ECOLOGICAL INFORMATION

Biodegradability:	Data not available.
Precautions:	Prevent surface contamination of soil, ground and surface water.

13. DISPOSAL CONSIDERATIONS

Avoid disposing to drainage systems and into the environment. Seek expert advice.

14. TRANSPORT REGULATIONS

N/A

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:	Substances are either included in EINECS, ELINCS, NLP inventories or exempt.
Chemical safety assessment:	Not available

16. OTHER INFORMATION

Q.C. Requirements

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in the material safety data sheets is meant to represent typical data / analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product. The information provided does not constitute a contract a supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.



SPECIFICATIONS GALANGAL OIL

<u>PRODUCT NAME</u>	: GALANGAL OIL
<u>GEOGRAPHICAL</u>	: INDIA
<u>ORIGIN</u> <u>MODE OF</u>	: STEAM DISTILLED
<u>EXTRACTION</u>	
<u>DISTILLED OR</u>	: ROOT
<u>EXPRESSED ORGAN</u>	
<u>PRODUCT/</u>	: GALANGAL OIL
<u>STANDARD</u>	: LIGHT YELLOW
<u>DESCRIPTION</u>	: CAMPHOR LIKE ODOR
<u>ODOUR</u>	: - 0.13 TO - 6.33
<u>OPT.ROTATION</u>	: 1.4721 TO 1.5440
<u>REF.INDEX</u>	: 0.8920 TO 0.9704
<u>SP.GRAVITY</u>	: 02 YEARS FROM THE DATE OF MFG.
<u>BEST USE BEFORE</u>	: SOLUBLE IN OIL INSOLUBLE IN WATER
<u>SOLUBILITY</u>	: STABLE UNDER NORMAL CONDITIONS
<u>STABILITY</u>	: AVOID OXIDIZING MATERIALS
<u>REACTIVITY</u>	: SHOULD BE STORED BELOW 20⁰C IN
<u>STORAGE</u>	COOL, DRY, WELL VENTILATED PLACE
<u>INSTRUCTIONS</u>	IN FULLY & TIGHTLY SEALED
	CONTAINERS. PROTECTED FROM LIGHT &
	KEEP AWAY FROM ANY SOURCE OF
	IGNITION/FIRE.



Vegetarian & Vegan Suitability Statement

PRODUCT NAME: **Galangal Essential Oil**

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.