



salinaturals  
Natural Preservatives

OLG

# Introduction

SALICYLATES AND CHEMICALS is one of the largest manufacturers of preservatives for personal care and pharmaceutical applications. Considering the emerging need in the global market for natural preservatives, SALICYLATES introduces **Salinaturals** - Natural preservatives for Personal and Health Care products, developed as an alternative to synthetic preservatives.

**Product Name**    **Salinatural OLG**

**Description**        **Salinatural OLG** preservative is based on Orange Oil, Lemon Grass Oil & Sesame Oil

**INCI Name**            Orange Oil - Citrus Aurantium  
Lemon Grass Oil - Cymbopogon Citratus  
Sesame Oil - Sesamum Indicum

- The plants are cultivated on a farm spread over 100 acres and the extraction is carried out by Supercritical CO<sub>2</sub> process which allows most compounds to be extracted without altering the main properties of the oil. We grow many of our species & herbs on our own contracted certified organic farm.
- **Salinatural OLG** is a broad spectrum natural liquid preservative system, suitable for personal care and cosmetic applications.
- It has been designed specifically for formulations with a pH ≤ 6.0
- It is effective against Gram-positive & Gram-negative bacteria, yeast and mold.
- Being non-toxic, it is very safe to use.
- Cost effective

## Features & Benefits

- Good Aroma
- Antioxidant
- Long shelf life
- Broad spectrum activity
- Non-toxic
- Wide application
- Excellent bacterial and fungal control
- Ensured safety - no label required

## Physical Properties

Property	Specification
Appearance	Liquid
Color	Pale Yellow
Odor	Mild
Specific Gravity	0.93 ± 0.03

## Applications

- **Salinatural OLG** is water dispersible, pale in color with a mild lemony odor and compatible with a diverse range of products in formulations.

Rinse-off Products	Skin Care
Shampoos Shower Gels Body Washes Foam Baths	Creams Lotions Emulsions Gels

- **Salinatural OLG** is typically used at 1.00 - 2.00% in rinse-off and leave-on product formulations.
- **Salinatural OLG** provides excellent protection at pH 6 and can widely be used at pH 3-7.
- **Salinatural OLG** can be added into any phase of the manufacturing process including the water phase of emulsions; it can tolerate temperatures up to 50°C.
- **Salinatural OLG** requires intense mixing for uniform dispersal of the active ingredients when low amounts of emulsifiers are in the system.
- **Salinatural OLG** is fully compatible with a wide range of formulations as well as most types of herbal extracts, proteins and anionic systems.

### Broad Spectrum Activity

**Salinatural OLG** provides excellent protection against various types of common organisms in a typical Facial Cream, Hand Cream, Shower Gel and Moisturizing Lotion at pH 6. The broad spectrum activity of **Salinatural OLG** leads to greater efficacy. It provides protection against both types of contaminants.

## Preserved by nature

In the on-going development of new preservatives, SALICYLATES AND CHEMICALS encountered many customers seeking natural preservatives. To satisfy this emerging global demand, SALICYLATES researched various naturally occurring essential oils commonly used in India.

**Salinatural OLG** is based on three key essential oils: Orange Oil (Citrus Aurantium)  
Lemon Grass Oil (Cymbopogon Citratus ) and Sesame Oil (Sesamum Indicum)

### Orange Oil

<b>Botanical Name</b>	Citrus Aurantium
<b>Part Used</b>	Glands / Orange Peels
<b>Extraction Method</b>	SCO <sub>2</sub> Extraction / Steam Distillation
<b>Origin</b>	India



### Description

Orange oil is an essential oil produced by glands inside the rind of an orange fruit. It is also extracted or steam distilled as a by-product of orange juice production. It gives citrus aroma and therefore used in perfume and household cleaner for its fragrance.

### Therapeutic Properties

The therapeutic properties of Orange Oil are anti inflammatory, antispasmodic, aphrodisiac, anti-neuralgic, anti-infectious, disinfectant, insecticide, stimulant, stomachic, uterine and tonic. It helps with toothache and mouth sores. It is also of use for skin problems - especially for skin sores and leg ulcers. It is also an insect repellent.

### Aromatherapeutic Use

Commonly used in aroma therapy as the scent of Orange reduces anxiety and lowers high blood pressure. Orange oil is excellent body moisturizer having cheering and refreshing effect.  
Disinfectants.

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## Lemon Grass Oil

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<b>Botanical Name</b>	Cymbopogon citratus
<b>Family</b>	Graminaceae
<b>Part Used</b>	Fresh or partially dried grass
<b>Extraction Method</b>	Steam distillation Method
<b>Origin</b>	India

### Botanical Description

Lemongrass oil is extracted from Cymbopogon citratus (also known as Andropogon citratus, A. schoenathus - of the Poaceae family. Lemon Grass is an aromatic herb, that has robust, lemon scented linear leaves. It is a perennial fast-growing aromatic grass, growing to about 1 meter (3 feet) high with long, thin leaves and originally was growing wild in India.

The quantity of oil depends upon the age of the grass and found to have refreshing fragrance and properties.

### Therapeutic Properties

The therapeutic properties of lemongrass oil are analgesic, anti-depressant, antimicrobial, antipyretic, antiseptic, astringent, bactericidal, carminative, deodorant, diuretic, febrifuge, fungicidal, galactagogue, insecticidal, nervine, nervous system sedative and tonic.

### Aromatherapeutic Use

It is a valuable ingredient in perfumes and citrus-type soaps and is also an insect deterrent. It is a fresh smelling oil that can be used with success for fighting jet lag, cellulite, revitalizing a tired body and mind. On the skin, it helps to balance oily conditions and to clear inflammation and fight fungal infections.

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## Sesame Oil

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<b>Botanical Name</b>	Sesamum indicum
<b>Family</b>	Pedaliaceae
<b>Part Used</b>	Seeds
<b>Extraction Method</b>	cold pressing Method
<b>Origin</b>	India



### Botanical Description

Sesame Seed is the seed of an annual herb, *Sesamum indicum*, which grows well in hot climates. Sesame Seed is the most commonly produced seed. Sesame is a herbaceous, annual and tropical plant which reaches heights of 1-2 meters. The leaves have varied shapes, they are either oval or lanceolate and fluffy on both sides.

The flowers are either violet or white, and at their end, one can find pods of 3 cm containing many seeds. Their color varies from yellowish-white to red, brown or black. It is naturally antibacterial for common skin pathogens, such as staphylococcus and streptococcus as well as common skin fungi, such as athlete's foot fungus. It is a natural anti-inflammatory agent. Sesame seed oil is a potent antioxidant. It keeps the skin supple and soft and protects against common skin pathogens.

### Therapeutic Properties

Sesame seeds contain fat substances, antioxidants, sesamol, proteinic substances, arginine and cellulose, mineral substances and calcium. This way, the sesame seeds have a very high nutritive and energetic value.

### Aromatherapeutic Use

Sesame massage oil has great moisturizing, soothing and emollient qualities which makes it a good choice to include when mixing a massage oil or preparing a carrier oil blend. Sesame oil has some sun screening properties but should not be used as a sun screen preparation, unless in an emergency. Since it is a good source of vitamins and minerals the sesame oil is used in cosmetics for making soap.

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Shampoo Preserved With 1.00% Salinatural OLG

Test Organism	Inoculum density / 0.1 ml	Weight of Sample	Expected count per gm of Sample
Staphylococcus aureus	$6.4 \times 10^8$ cfu/ml	20.03 g	$3.1 \times 10^7$ cfu/g
Escherichia coli	$2.3 \times 10^8$ cfu/ml	20.02 g	$1.1 \times 10^7$ cfu/g
Pseudomonas aeruginosa	$4.2 \times 10^8$ cfu/ml	20.01 g	$2 \times 10^7$ cfu/g
Aspergillus niger	$5.7 \times 10^7$ cfu/ml	20.00 g	$2.8 \times 10^6$ cfu/g
Candida albicans	$4.8 \times 10^7$ cfu/ml	20.12 g	$2.3 \times 10^6$ cfu/g

Test Organism	Count at Zero hour	Count at 7 <sup>th</sup> day	Count at 14 <sup>th</sup> day	Count at 21 <sup>st</sup> day	Count at 28 <sup>th</sup> day
Staphylococcus aureus	$9.2 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Escherichia coli	$6.8 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Pseudomonas aeruginosa	$5.6 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Aspergillus niger	$6.0 \times 10^4$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Candida albicans	$2.9 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g



Stability

Salinatural OLG preservative is very stable and shows no change in composition over long periods of time. It is also freeze / thaw / heat stable without separation or crystal formation through several cycles.

Face Wash Preserved With 1.00% Salinatural OLG

Test Organism	Inoculum density / 0.1 ml	Weight of Sample	Expected count per gm of Sample
Staphylococcus aureus	$6.4 \times 10^8$ cfu/ml	20.03 g	$3.1 \times 10^7$ cfu/g
Escherichia coli	$2.3 \times 10^8$ cfu/ml	20.02 g	$1.1 \times 10^7$ cfu/g
Pseudomonas aeruginosa	$4.2 \times 10^8$ cfu/ml	20.01 g	$2 \times 10^7$ cfu/g
Aspergillus niger	$5.7 \times 10^7$ cfu/ml	20.00 g	$2.8 \times 10^6$ cfu/g
Candida albicans	$4.8 \times 10^7$ cfu/ml	20.12 g	$2.3 \times 10^6$ cfu/g

Test Organism	Count at Zero hour	Count at 7 <sup>th</sup> day	Count at 14 <sup>th</sup> day	Count at 21 <sup>st</sup> day	Count at 28 <sup>th</sup> day
Staphylococcus aureus	$9.2 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Escherichia coli	$6.8 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Pseudomonas aeruginosa	$5.6 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Aspergillus niger	$6.0 \times 10^4$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Candida albicans	$2.9 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g



Toxicity Information

Mainly due to impending legislation in Europe, which will soon impose various marketing restrictions, **Salinatural OLG** preservative has not been tested on animals. Therefore, toxicity testing information regarding the blended material will not be generated. However, each of the **Salinatural OLG** ingredients has been tested extensively over the years. Overall, the ingredients in **Salinatural OLG** have been carefully chosen due to their global acceptance as well as excellent toxicity profiles.



**Cream Base Preserved With 2.00% Salinatural OLG**

Test Organism	Inoculum density / 0.1 ml	Weight of Sample	Expected count per gm of Sample
Staphylococcus aureus	$6.4 \times 10^8$ cfu/ml	20.03 g	$3.1 \times 10^7$ cfu/g
Escherichia coli	$2.3 \times 10^8$ cfu/ml	20.02 g	$1.1 \times 10^7$ cfu/g
Pseudomonas aeruginosa	$4.2 \times 10^8$ cfu/ml	20.21 g	$2.0 \times 10^7$ cfu/g
Aspergillus niger	$5.7 \times 10^7$ cfu/ml	20.17 g	$2.8 \times 10^6$ cfu/g
Candida albicans	$4.8 \times 10^7$ cfu/ml	20.04 g	$2.3 \times 10^6$ cfu/g

Test Organism	Count at Zero hour	Count at 7 <sup>th</sup> day	Count at 14 <sup>th</sup> day	Count at 21 <sup>st</sup> day	Count at 28 <sup>th</sup> day
Staphylococcus aureus	$2.1 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Escherichia coli	$7.7 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Pseudomonas aeruginosa	$8.2 \times 10^6$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Aspergillus niger	$5.0 \times 10^4$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
Candida albicans	$4.7 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g



**Safety And Regulatory Profile**

**Salinatural OLG** has an excellent safety and toxicological profile and is safe to use in a wide range of personal care applications.

(The information given in this booklet is based on our current knowledge and experience, and may be used at your discretion and risk. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.)

# SALICYLATES AND CHEMICALS PRIVATE LIMITED

5/44, Tardeo A/C Market  
Tardeo Main Road  
Mumbai 400 034  
Maharashtra, India

T. +91 22 2351 4413 / 3868  
F. +91 22 2351 6076  
E. salicylates@vsnl.net  
www.preservativesindia.com

We make preservatives  
that preserve your reputation

## PRODUCT RANGE :

- salinatural CCL
- salinatural BCLS
- salinatural TCLS



  
**salinatural**  
Natural Preservatives



ISO 9001:2000



ISO 14001:2004



ISO 22000:2005



OHSAS 18001:2007