

# Biological activity of cymbopogon citratus dc stapf and

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**What are the biological activities of lemon grass?** Anti-oxidant, anti-inflammatory, anti-bacterial, anti-obesity, antinociceptive, anxiolytic and antihypertensive evidences of lemongrass tea were clearly elucidated to support initial pharmacological claims.

**What is the bioactivity of Cymbopogon citratus?** Anti-bacterial activity Essential oils such as  $\gamma$ -citral (geranial) and  $\beta$ -citral (neral) have been isolated, characterised and analysed from C. citratus leaf. These compounds are active antibacterial compounds with predominant activities against gram positive and negative bacterial isolates [52].

**What is the chemical composition evaluation of Egyptian lemongrass Cymbopogon citratus essential oil?** The major essential oil component was citral (79.69%) consisted of 42.86% geranial and 36.83% neral, followed by myrcene which was 8.05%.

**What is Cymbopogon Flexuosus used for in medicine?** The leaves and stems are used in cooking and for making herbal tea. Medicinal: Many medicinal uses but most know to calm and relieve the cramping and colic associated with digestive problems. In India it has also been used as a topical application to treat fungal infections like ringworm.

**What are the biological activities of lemons?**

**What is the active compound in lemon grass?** Lemongrass essential oil (LEO) carries a significant amount of numerous bioactive compounds, such as citral (mixture of geranial and neral), isoneral, isogeranial, geraniol, geranyl acetate,

citronellal, citronellol, germacrene-D, and elemol, in addition to other bioactive compounds.

**What are the active compounds in *Cymbopogon citratus*?** The compounds identified in *Cymbopogon citratus* are mainly terpenes, alcohols, ketones, aldehyde and esters. Some of the reported phytoconstituents are essential oils that contain Citral ?, Citral ?, Nerol Geraniol, Citronellal, Terpinolene, Geranyl acetate, Myrecene and Terpinol Methylheptenone.

**What is the antibacterial activity of *Cymbopogon citratus* against clinically important bacteria?** The antibacterial activity of *C. citratus* was not that significant for most of the gram negative bacteria , except for *P. aeruginosa* which exhibited significantly high zones of inhibition.

**What is the economic importance of *Cymbopogon citratus*?** 3.4 Economic Importance The oil is distilled from leaves and flowering tops of Lemon grass. The oil has strong lemon-like odour, due to high percentage ( over 75%) of citral in the oil. The characteristic smell of oil makes its use in scenting of soaps, detergents, insect repellent preparations.

**What effect of lemongrass *Cymbopogon citratus* essential oil on properties of chitosan films for active packaging?** The hydrophobic nature of lemongrass oil causes the decrease in the solubility of the film in water. The reduced number of OH bonds in chitosan and the presence of aliphatic groups from lemongrass oil to the chitosan film caused the solubility of the chitosan film in water was decreased [10] .

**What bioactive compounds are in lemongrass essential oil?** Lemongrass essential oil contains numerous bioactive compounds, including citral, citronellol, citronellal, limonene, linalool, and nerol [20]. Lemongrass essential oil has been reported to display antibacterial, anti-inflammatory, anticancer, antimutagenic, and antidiabetic activities [21] .

**What illness does lemongrass treat?** Now grown in Africa, Australia, and North and South America, lemongrass is widely used as a natural remedy for digestive issues, neurological problems, and high blood pressure. Lemongrass reportedly has antibacterial and antifungal properties. It has traditionally been used as a pain reliever and fever reducer.

**What is *Cymbopogon citratus* good for?** Lemongrass—whose scientific name is *Cymbopogon citratus*—is an edible herb traditionally used in certain cuisines and aromatherapy. It may also be useful for medicinal purposes, with research showing potential gut, immune, and mental health benefits.

**Is *Cymbopogon flexuosus* oil safe to use?** The use of LGEO is considered to be safe in accordance with the opinion of the Food and Drug Administration of USA, which qualified lemongrass oil (obtained from *C. citratus* and *C. flexuosus*) as generally recognized as safe (GRAS) as food additive [37].

**What is the difference between *cymbopogon citratus* and *Cymbopogon flexuosus*?** The so-called East-Indian lemongrass (*C. flexuosus*) (also known as cochin or Malabar grass) is native to India, Sri Lanka, Burma and Thailand, while West-Indian lemongrass (*C. citratus*), is of a Malaysian origin and is more typically used for cooking. When crushed, the fragrance resembles the scent of lemon.

**What happens when you drink lemon water for 7 days?** Regular consumption of lemon water may help strengthen bones, promote oral health, and prevent anemia and kidney stones due to its citrate content. Lemon juice contains various antioxidants, minerals, and vitamins that boost brain and heart health.

**What happens if you drink lemon water before bed?** Hot lemon water may induce relaxation before bed, which could help with sleep. It can also help with general hydration. Lemon contains vitamin C, which is important for several bodily functions. Hot lemon water may provide other benefits, but there is a lack of evidence behind most health claims.

**What in lemons kills bacteria?** The citric acid in lemons is antibacterial and antiseptic, which means that lemons can kill bacteria, remove mould and mildew and even, if done properly, remove rust.

**What is the antioxidant activity of *Cymbopogon citratus*?** On steam water distillation, the EO was distilled from lemongrass stalk have the highest antioxidant activity up to 72.724% inhibition.

**What are the active compounds in lemons?** Its main compounds include: limonene (31.5%), sabinene (15.9%), citronellal (11.6%), linalool (4.6%), neral

(4.5%), geranial (4.5%), (E)- $\alpha$ -ocimene (3.9%), myrcene (2.9%), citronellol (2.3%),  $\beta$ -caryophyllene (1.7%), terpine-4-ol (1.4%), geraniol (1.3%) and  $\beta$ -pinene (1.2%) (Table 6) [14,16,40,41,42,43].

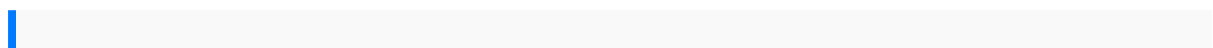
**What is the antifungal activity of lemon grass?** (lemongrass) was fungistatic and fungicidal against *A. flavus* at concentrations of 0.6 mg/mL and 1.0 mg/mL, respectively. In addition, lemongrass essential oil was also reported to be one of the top three in the highest antifungal activity among 11 essential oils [58].

**What are the functions of lemon grass in the body?** Lemongrass might help prevent the growth of some bacteria and yeast. Lemongrass also contains substances that are thought to relieve pain, reduce fever, stimulate the uterus and menstrual flow, and have antioxidant properties.

**What is the scientific basis of lemon grass?** *Cymbopogon citratus*, Stapf (Lemon grass) is a widely used herb in tropical countries, especially in Southeast Asia. The essential oil of the plant is used in aromatherapy. The compounds identified in *Cymbopogon citratus* are mainly terpenes, alcohols, ketones, aldehyde and esters.

**What does lemongrass do for the environment?** Lemongrass can help the environment by improving the stability of soils, preventing erosion, and reducing the incidence of landslides. Lemongrass can help the environment by being used as a source of cellulose for manufacturing paper and pulp, as well as in the production of composites and bioenergy.

**What special adaptations does lemon grass have?** Lemongrass has developed large stomata on both sides of the leaves; however, in order to adapt to the environment, the number on the underside of the leaf is significantly lower. Because of the heat, having numerous stomata on the upper surface is necessary for cooling the plants through transpiration.



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