

OLIVE LEAF EXTRACT

PRODUCT DATA SHEET



OLIVE LEAF EXTRACT is obtained from the leaves of the olive tree, *Olea Europaea*. Historically, olive leaves have been widely used as a remedy for the treatment of fever and other diseases like malaria in European and other Mediterranean countries.

Qualities of **OLIVE LEAF EXTRACT** are mostly related to low molecular weight polyphenol **oleuropein** (up to 60-90 mg/g dry leaves weight), among other, as well as flavonoids. Moreover, the combined phenolic compounds have significantly higher antimicrobial activity than those of the individual phenolics.

OLIVE LEAF EXTRACT has been shown to have strong antimicrobial activity against both Gram-negative and Gram-positive bacteria and mycoplasma. Phenolic structures similar to oleuropein seem to exert its antibacterial effect by damaging the bacterial membrane and/or disrupting cell peptidoglycans.

OLIVE LEAF EXTRACT shows antimicrobial activity against *Bacillus cereus*, *Candida albicans*, *Escherichia coli*, *Staphylococcus aureus*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* and *Bacillus subtilis*.

Besides the antibacterial and antifungal activity of **OLIVE LEAF EXTRACT**, this outstanding plant product contains many potentially bioactive compounds exhibiting a number of health benefits, such as antioxidant, anti-hypertensive, anti-inflammatory, hypoglycaemic and hypocholesterolemic properties.

Oleuropein present at high levels in **OLIVE LEAF EXTRACT** also acts as a skin protectant, as free radical scavenger at the skin level, as well as antiaging by decreasing levels of reactive oxygen species (ROS) and eventually delaying appearance of senescence in cells.

OLIVE LEAF EXTRACT

TECHNICAL DATA

Minimum Inhibitory Concentration on Grampositive and Gramnegative bacteria.

Microorganisms	MIC (μ g/ml)
<i>Escherichia coli</i>	6.97
<i>Pseudomonas aeruginosa</i>	25.01
<i>Klebsiella pneumoniae</i>	19.03
<i>Enterobacter cloacae</i>	21.29
<i>Staphylococcus aureus</i>	09.12

APPLICATION



OLIVE LEAF EXTRACT is a unique preservative for cosmetic products, combining protection of the product against microbial spoilage with proven dermo-protective and therapeutic properties such as anti-inflammatory, anti-neoplastic and anti-aging.

OLIVE LEAF EXTRACT is ideally suited as ingredient for all kind of personal care products and toiletries, since it plays a double role as a preservative and active ingredient. Furtherly, it is a 100% natural vegetable product, non-toxic, non-hazardous and completely safe and biodegradable.

INCI Name: Olea Europaea Leaf Extract

CAS No.: [8001-25-0 / 84012-27-1]

EINECS/ELINCS No.: 232-277-0

References:

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GREEN OLIVE LEAF EXTRACT MINIMUM 20 %**CODE** 000292 **SPECIFICATION** **Nº** 00029201

PARAMETERS	SPECIFICATIONS	EDITION - 16/05/2008
Appearance	Green- yellowish powder.	
Solubility	Partially soluble in water, freely soluble in methanol and ethanol.	
Water Content (%)	max. 3 %	
Residue on ignition (%)	max. 3 %	
Heavy metals (as Pb)	< 20 ppm	
HPLC ASSAY		
Oleuropeosides	min.20 %	

PACKING**REMARKS**

Keep in the original packing at 10-25°C far away from light and humidity. Keep in a dry and well ventilated place away from light contact.