

ALOE VERA GEL 1X

PRODUCT DATA SHEET



The **ALOE VERA** plant is native to northern Africa. **ALOE VERA GEL 1X** is 100% natural, extracted from the sap of freshly harvested leaves of the Aloe Vera. The extraction process is very old and it dates back to the time of the Arab Empire.

ALOE VERA contains a wide range of active ingredients including polysaccharides, vitamins, minerals, enzymes, anthraquinones or phenolic compounds, lignin, saponins, sterols, essential oils, amino acids and salicylic acid.

During the manufacturing process, special attention must be paid to not applying excessive heat as this destroys or reduces the effect of certain essential compounds, such as enzymes and polysaccharides.

Polysaccharides are perhaps the most important active desirable constituents and strongly representative of the overall strength of the preparation. They are the most powerful natural moisturizing agent.

TECHNICAL DATA

Appearance:	Transparent colorless liquid
Odour:	Slight vegetable
Specific gravity at 25°C:	0.997 - 1.008 g/ml
Total Aloe solids:	Min. 0.5 %
Aloe Polysaccharides:	Min. 60 mg/100 ml

ALOE VERA GEL 1X provides 20 of the 22 necessary amino acids required by the human body and seven of the eight essential amino acids which the body cannot synthesize.

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Saponins are soapy substances and form around 3 per cent of the gel and are general cleansers, having antiseptic properties. As far as the sterols concerns, Campesterol, β Sitosterol and Lupeol are included. Vitamins B1 and B2 helps to promote skin health and β Carotene and Vitamin E provide anti-oxidation properties.

It also contains salicylic acid, possessing anti-inflammatory and antibacterial properties. At the same time it has a kerolytic effect which helps to soothe the skin.

APPLICATION



ALOE VERA GEL 1X has numerous uses in cosmetic products, being appreciated for its unique properties to soothe and moisturize dry, irritated or damaged skin. To achieve the whole benefit of Aloe Vera Gel, the finished product should contain a minimum of 15 % of gel.

The clear gel contained within the leaf makes an excellent treatment for wounds, burns and other skin disorders, placing a protective coat over the affected area, speeding up the rate of healing and reducing the risk of infection. This action is in part due to the presence of aloectin B, which stimulates the immune system¹. Extracts of the plant have antibacterial activity².

INCI NAME: Aloe Barbadensis Leaf Juice

¹Chevallier. A. *The Encyclopedia of Medicinal Plants* Dorling Kindersley. London 1996

²Duke. J. A. and Ayensu. E. S. *Medicinal Plants of China* Reference Publications, Inc. 1985