

## Ethically Sourced Ingredients

### LEUCONOSTOC FERMENT EXTRACT, WATER SOLUBLE PRESERVATIVE

*Suitable for beauty and personal care applications.*

**INCI:** Leuconostoc Ferment Filtrate  
**Extraction:** See Background Section  
**Shelf Life:** 1 Year  
**Origin:** USA

#### Background:

Praan Naturals Leuconostoc Ferment Extract is a standardized fermented extract that is derived from naturally occurring compounds. It offers impressive antimicrobial activity without the risks associated with using synthetic preservatives. It is well suited for use in the formulation of the finest beauty, cosmetic and personal care products.

Leuconostoc Ferment Extract is produced by fermenting *Leuconostoc kimchii* in a defined growth medium. *Leuconostoc kimchii*, a lactic acid bacteria, is best known for its role in the creation of the delicious, spicy Korean fermented cabbage dish known as kimchi.

The extract is comprised solely of Leuconostoc Ferment Filtrate and Water. The extract is standardized to achieve a composition of 18-22% Salicylic Acid.

Praan Naturals Leuconostoc Ferment Extract is suitable for use in certified organic products because the raw materials used to produce the extract are NOP-compliant as specified in Title 7, Part 205.605 and 205.606 of the Code of Federal Regulations.

#### Properties:

- Suitable for Use in Certified Organic Products
- Non-GMO
- Non-Irradiated
- Non-Toxic, Non-Irritating and Non-Sensitizing
- Antimicrobial
- Moisturizing and Conditioning
- Product Form: Liquid
- Solubility: Water
- Appearance: Clear to Slightly Hazy
- Odor: Characteristic
- pH: 4.0 - 6.6
- Active For Acidic (pH 3) and Basic (pH 8) Conditions
- Heat Stable Up to 140°F (60°C)
- Salicylic Acid Composition: 18-22%
- See *Spec Sheet and Test Results for Additional Details*



#### Uses:

Praan Naturals Leuconostoc Ferment Extract is an effective anti-microbial that functions as a natural alternative to synthetic preservatives within certified organic and conventional cosmetic product formulation. It also demonstrates effective use as a moisturizing and conditioning agent. Its composition includes 18-22% Salicylic Acid making it especially beneficial in formulations intended for problematic skin and hair conditions.

Leuconostoc Ferment Extract is water soluble and can be added to water-based formulations, or it can be added during the water phase of emulsions that maintain a pH range of 3.0-8.0. It is recommended that Leuconostoc Ferment Extract be added during the cooling phase at temperatures below 140°F (60°C) and added prior to the addition of thickeners such as xanthan gum. Leuconostoc Ferment Extract has the potential for incompatibilities with highly anionic ingredients including thickeners. Please contact us for details.

#### Recommended Usage Rate: 2 - 4%

*All formulations should be challenge tested by a qualified laboratory to ensure that each batch is properly preserved. The method of production, the specific components of the formulation, the environment in which the batch is formulated and the method of packaging all play a crucial role in the resulting shelf life of a batch. Therefore, we cannot guarantee your results when incorporating natural antimicrobials and preservatives into your formulations. Only lab challenge testing can determine how and if an antimicrobial/preservative is achieving the desired results.*

**Standard Packaging:** Available in carboys.

#### Storage Information:

Mix well before use. Store at room temperature in a cool, dry location. Do not freeze.



**For more information regarding Praan Naturals Leuconostoc Ferment Extract and our range of preservatives and other natural ingredients, visit [PRAANnaturals.com](http://PRAANnaturals.com) or call our Customer Care department at (800) 340-0080 or (203) 702-2500.**

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