

Ethically Sourced Ingredients

GRAPEFRUIT SEED EXTRACT, PROFESSIONAL STRENGTH

Suitable for beauty and personal care applications.

INCI: Citrus Grandis (Grapefruit) Seed Extract
Shelf Life: Stable

Background:

Praan Naturals Professional Strength Grapefruit Seed Extract (GSE) is a powerful broad spectrum citrus based anti-microbial that can be used to extend product shelf life and protect personal skin care formulations against bacteria and fungus. Professional Strength GSE possesses strong antiseptic, germicidal, antibacterial, fungicidal and anti-viral properties and also acts as an anti-oxidant.

Professional Strength Grapefruit Seed Extract is formulated from both the seeds and the pulp of grapefruits (*Citrus grandis*). The process of extraction yields an active botanically-derived product consisting of flavonoids, such as naringen, ascorbic acid, tocopherols and citric acid which is then blended with USP vegetable glycerin and additional ascorbic acid. The main active constituents are flavonoids and ascorbic acid.

The heavy viscous liquid is yellow/golden brown in color and has a mild citrus aroma.

Professional Strength GSE Properties:

- Antimicrobial
- Antioxidant
- Germicidal
- Antiseptic
- Antibacterial (Protects against Gram-Positive and Gram-Negative bacteria including *Escherichia coli*, *Staphylococcus aureus* and *Pseudomonas aeruginosa*)
- Fungicidal (Protects against *Aspergillus flavus* and *Aspergillus niger*)
- Antiviral
- Biodegradable
- Non-corrosive
- Considered Environmentally Safe
- Non-Toxic and Non-Irritating
(when used at dilutions of up to 0.2%)
- **See the independent Challenge Test Results, Specs and Safety Data Sheet documents for additional details.**



Composition:

Active Ingredients (60%):

- Grapefruit Seed Extract: 42.0-46.0%
- Vitamin C (Ascorbic Acid): 14.0-18.0%

Inert Ingredients (40.0%):

- Glycerine: 37.0-40.0%
- Moisture: 0-3.0%

Uses:

Grapefruit Seed Extract is a potent antimicrobial that should be considered for inclusion in personal care products that contain water, milk, hydrosols or other aqueous liquids.

- Moisturizers
- Serums
- Balms
- Facial Toners
- Mud Packs
- Exfoliants
- Personal Fragrance Products
- Liquid Soaps
- Hair Care Products
- Can Also Be Used to Help Disinfect Laboratory Utensils and Manufacturing Equipment

Recommended Usage as an Antimicrobial in Personal Care Applications: 2,000 ppm (0.2%).

This usage rate is provided as a guideline only. Formulations should be challenge tested by a qualified laboratory to ensure products are adequately protected.

