

## Radish Root Ferment Filtrate

### Specification Sheet

**Description:** All-natural ingredient with effective preservative properties, based on the synergy exhibited by multiple plant extracts. Easy to use and will not impart any additional color or odors to your formulations. Straw to yellow color liquid, pH 4.9. Soluble in water.

**CAS:** 56-81-5, 84775-94-0, 84603-62-3, 999999-99-4, 90-80-2

**INCI Name:** Glycerin, Leuconostoc/radish root ferment filtrate, Lonicera Japonica (Honeysuckle) flower extract, Lonicera Caprifolium (Honeysuckle) flower extract, Populus Tremuloides (Aspen Bark) extract, gluconolactone

**Benefits:**

- 100% natural plant-derived product
- Predominantly active against Gram-positive and Gram negative bacteria. It also demonstrates activity against fungi and yeast (products which are highly prone to mold or yeast growth may need additional fungal protection).
- Contains benzoic acid (a natural constituent of honeysuckle) typically at concentrations < 0.01%.
- Compatible with most ingredients used in the personal care and pharmaceutical industry.
- Effective at wide pH range from 2 to 8
- Can be used in products for a preservative-free claim

**Use:** Water-soluble for easy use. Add at the end of formula and mix very well. Can also be added to the water phase of a formula. Typical use level is 0.5-2.5%. Can be added to formulas at temperatures of up to 50°C/120°F. For external use only.

**Applications:** Creams, lotions, cleansing products, hair care products incl. shampoos and conditioners.

**Country of Origin:** USA

**Raw material source:** Derived 100% from natural sources including radish root, two different Honeysuckle flower extracts and Aspen bark extract

**Manufacture:** Extracts prepared by two-phase extraction process.

**Animal Testing:** Not animal tested

**GMO:** GMO free but not certified

**Vegan:** Does not contain animal-derived components