RINATI LABS

Betasome™

Proprietary Beet Plant Stem Cell Extract for Advanced Anti-Aging & Skin Vitality

INCI
Beta Vulgaris Extract

- Mild scent
- Plant based
- Water soluble

1-5%
Usage level

- 100% natural
- Vegan
- Made in the USA
- cGMP-produced

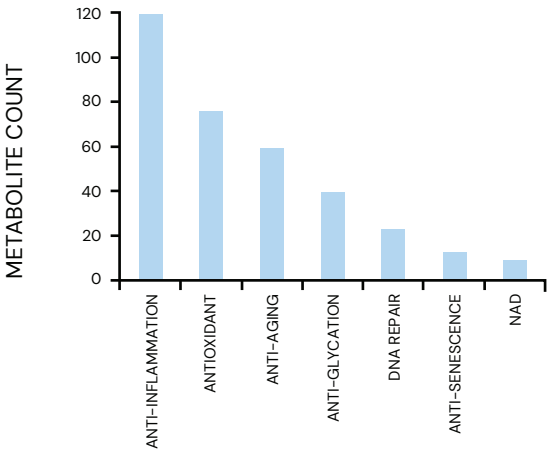
Betasome, is a proprietary formulation of Beetroot enriched with Beetroot Stem Cell components, which are valuable types of cells normally scarce in plant tissues.

Traditional Ingredients: Niacinamide, Panthenol, Hyaluronic Acid, Ceramides, Squalene

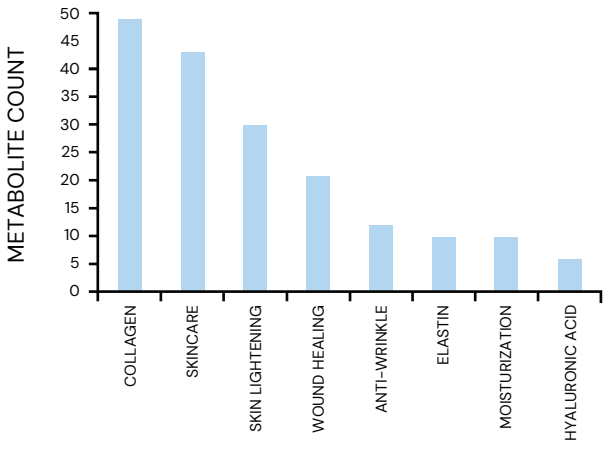
Typical Performance Profile: Traditional moisturizing and barrier-support ingredients typically act by increasing water retention within the stratum corneum or reinforcing lipid barrier structure.

Betasome Positioning: Betasome contains metabolites such as betaine and phenolic compounds associated with osmoprotection and antioxidant activity, supporting skin hydration, barrier resilience, and elasticity through a broader metabolic support system.

Betasome Vital Compounds

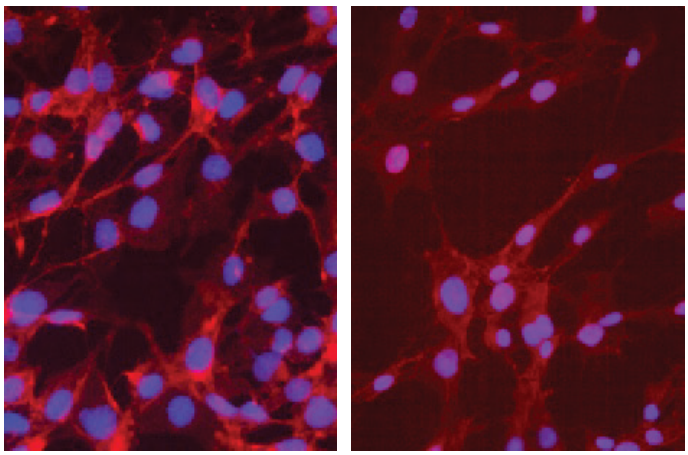


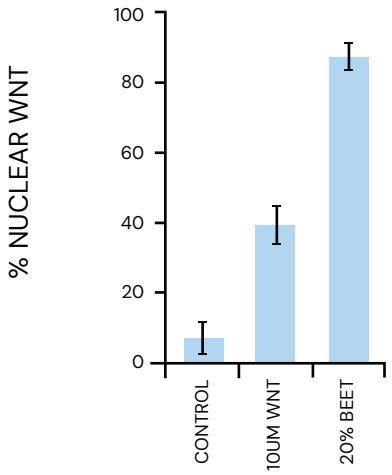
Betasome Skincare Compounds



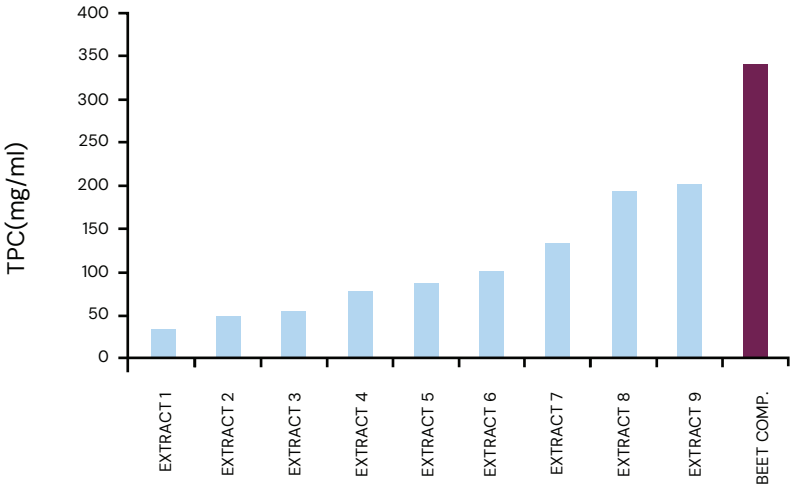
Betasome contains immense numbers of metabolites beneficial for vital cellular processes that support youthful, vigorous, and vital skin.

Bar graphs show the number of metabolites identified by LC-MS in the Betasome that support the indicated features

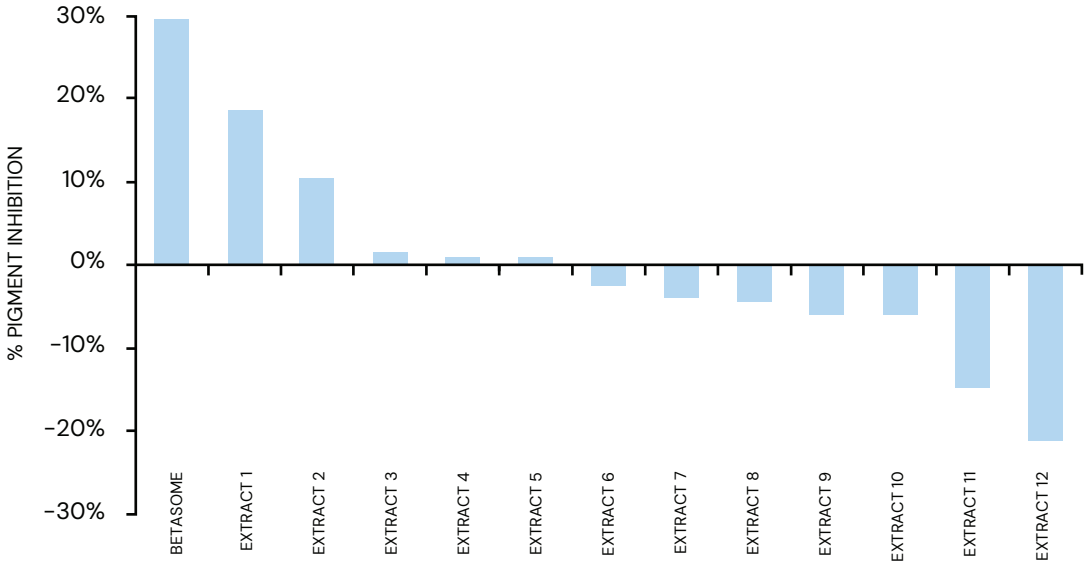




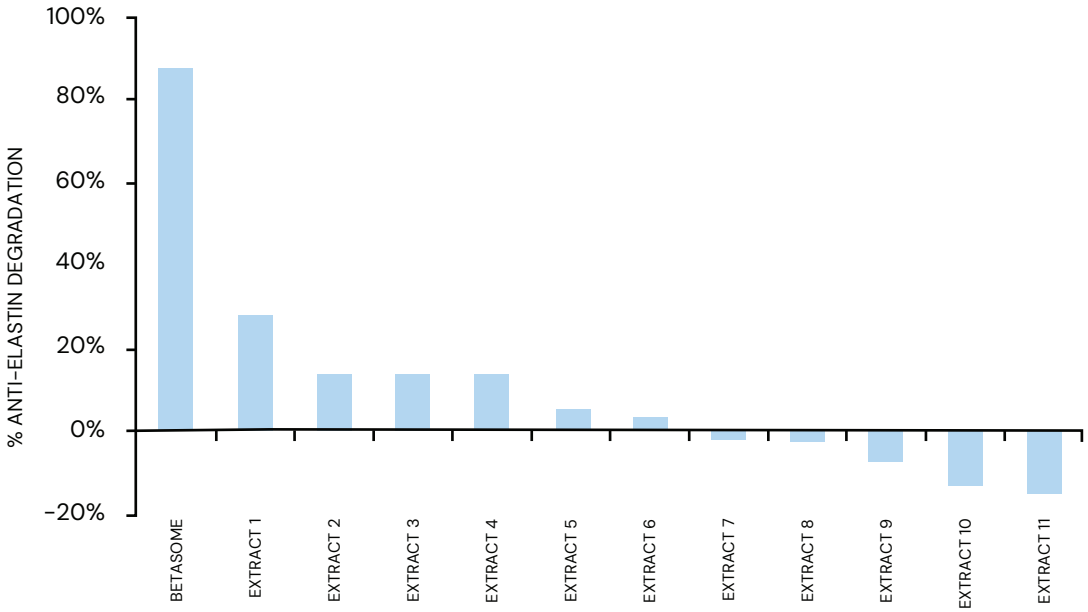
Images and the graph show the activation of the Wnt signaling pathway in adipose stem cells (ASCs) by the Betasome, as evident by the translocation of β-Catenin into the nuclei of ASCs. A reduction in Wnt signaling in ASCs can lead to thinner skin and fibrosis (scarring), processes that can be inhibited by the Betasome.



Total Phenol Content (TPC) in the Betasome and several other plant-based extracts. High TPC support skin anti-aging by protecting against oxidative stress, reduce inflammation, and inhibit enzymes that break down collagen and elastin.



Anti-pigmentation activity was measured by the suppression level of the enzyme Tyrosinase, which is the melanin formation enzyme in the skin.
Betasome showed a relatively higher anti-pigmentation effect, reaching about 30% of Tyrosinase inhibition.



Pro-elastin activity was measured by the suppression level of the enzyme Elastase that breaks down elastin in the skin.
Betasome showed a relatively higher pro-elastin activity, reaching more than 80% of anti-elastase inhibition.

*Inspired by traditional Ayurvedic practices (a centuries-old system of herbal wellness used in India and Southeast Asia) and supported by in vitro testing. These statements have not been reviewed by the FDA. This product is not meant to diagnose, treat, cure, or prevent any disease.