

TeraFluid™ Chia



prebiotic cellular oil for lipid restoration and skin repair

Actera

TeraFluid Chia is a nutrient-dense cellular oil extracted from sustainably-sourced chia seeds that triggers the skin's repair mechanism. Fueled by a cellular-active blend of branched chain fatty acids (BCFAs), antioxidants, anti-inflammatory phenolic compounds, and omega-3 fatty acids, TeraFluid Chia restores depleted lipid content and soothes stressed, dry, irritated skin and hair.

Physical Description

Liquid

INCI

Salvia Hispanica Seed Oil

Benefits

- Clinically proven to heal itchy, irritated, dry skin and improve associated redness and scaling
- Replenishes essential structural and moisturizing lipids in the skin and hair
- Most potent and sustainable source of very long-chain branched chain fatty acids (MLC BCFAs)
- Anti-inflammatory omega-3 fatty acid
- Superior oxidative stability: 4.5x more resistant to rancidity compared to conventional chia oil

Applications

- Soothing skin and scalp treatments
- Anti-itch care
- Anti-aging
- Hydrating face, body, or hair oils
- Anti-inflammatory acne care
- Scalp care
- Serums, creams, lotions



improves overall skin uniformity
for a smooth and radiant look

Bioactive BCFAs

Dietary chia oil has been utilized for centuries in Aztec and American Indian cultures. This nutrient-dense, prebiotic superfood is a potent source of antioxidants and anti-inflammatory phenolic compounds. In recent years, topical applications have gained attention thanks to the powerful therapeutic benefits of the high concentration of omega-3 fatty acids and branched chain fatty acids (BCFAs) in chia. While not common in typical foods, BCFAs can be found in traditional diets utilizing super-nutrient animal foods like yak and goat milk. Few plant sources have been identified; mainly brussels sprouts, pine nuts, marine sponges, or some fermented foods like natto. However, unlike other dietary sources, chia has been identified as a uniquely potent source of the very long chain (VLC) variety of BCFAs. This variety contains chains greater than 20 carbons in length and has been linked specifically to an anti-pruritic (anti-itch) effect on skin. VLC BCFAs also closely mimic the skin surface lipids, helping to restore depleted lipid content on stressed, dry, irritated skin, scalp, and hair.

Clinical Results

The restorative anti-inflammatory effects of chia oil were studied in an in-vivo clinical trial with human volunteers. A topical lotion containing 4% chia seed oil was compared to a placebo lotion over a period of 8 weeks on subjects suffering from xerotic pruritus symptoms including itching, scaling, dryness, and redness. Results show a significant improvement in skin hydration, itchiness, dry patches, and overall skin appearance.



Shelf-Life Stability

TeraFluid Chia is a uniquely stable source of chia oil. A proprietary extraction and gentle roasting process boosts natural antioxidant content, including vitamin E, resulting in superior oxidative stability compared to typical natural seed oils. TeraFluid Chia is 4.5 times more resistant to rancidity than conventional chia oil. This product is stable in its original unopened container when stored at temperatures below 70°F for up to 24 months. Once opened, use within 60 days.

Sustainability

Chia is one of the most sustainable sources of omega-3 fatty acid on Earth. TeraFluid Chia is an entirely traceable and sustainable farm-to-table ingredient ethically grown in Peru.

Sleeping Cream

The richness of a cream with a light water feel to instantly smooth and hydrate dry skin.

Phase	Ingredients (Trade Name)	%wt/wt
A	Water	Q.S.
	TeraGel	
	Solanum Tuberosum Pulp Extract (and) Furcellaria Lumbricalis Extract	3.9
B	TeraGlyceryl Olive	
	Olive Oil Polyglyceryl-6 Esters	2.0
	Glycerin	2.0
	Propanediol	3.0
	TeraFluid Chia	
	Chia Seed Oil	0.5
	Glyceryl Oleate Citrate	1.0
	Cetearyl Alcohol	1.0
	Sunflower Oil	1.5
	Preservative	-
	Total	100.0

Procedure:

- 1. Combine phase A and gently mix so TeraGel begins to hydrate.
- 2. Add phase B ingredients and heat A/B to 75°C then mix with propeller.
- 3. Begin cooling to room temperature while mixing.
- 4. Observe final viscosity at 24hrs – product will be thin initially and viscosity will set up over time.

Physical Properties:

Opaque, gel-cream
pH: 4.0
24hr viscosity using spindle 3 at 3rpm = 14,439 cps

Stability:

Passed 3 months at RT & 40°C
and 3 cycles F/T

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66 Walker Lane • Newtown, PA 18940 • USA
+1 (215) 525-4564
acteraingredients.com