

# 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.

# Nourishing Scalp Oil

Formulation #08-162

This lightweight scalp oil stimulates hair growth and inhibits shedding with **Follicin™**, a time-release bioactive that delivers pro-sandalore deeper into the scalp. Formulated with **TeraFluid™ Light** for a non-greasy, weightless feel and **TeraFluid™ Chia** to replenish essential lipids in the skin and hair for deep moisturization.

Phase	INCI	Trade Name	%
	Caprylic/Capric Triglyceride		54.0
	Coco-Caprylate		20.0
	Saccharomyces Ferment (and) Aspergillus Ferment	<b>TeraFluid™ Light</b>	10.0
A	Sandalore Caprylate	<b>Follicin™</b>	5.0
	Argania Spinosa (Argan) Kernel Oil		5.0
	Ricinus Communis Seed (Castor) Oil		5.0
	Salvia Hispanica (Chia) Seed Oil	<b>TeraFluid™ Chia</b>	1.0
		Total	100.0

## Procedure

1. Combine and mix under low shear until combined.

## Physical Properties

Appearance: Transparent pale yellow oil

## Stability

Passed 12 weeks at RT and 40°C and 3 cycles F/T

## Use Instructions

Apply oil directly to scalp and massage in

## Intended packaging

Dropper or roller ball

# Actera

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