



CAMELLIA-FERMENT™

HYDROLYZED GREEN+BLACK TEA FERMENT

Tea Ferment Extract produced by Helixion Biosciences is from a combination of Black tea & Green Tea hydrolysis, which makes it a uniquely balanced complex of active compounds from both Black & Green tea. Active combination from both teas including their antioxidants, vitamins, caffeine (thein), and polyphenols such as epigallocatechin gallate (EGCG), has multiple personal care benefits like ability to hydrate, improve dark circles under the eye, reduce inflammation, calm reactive skin, and even helps fight acne. Due to its rich antioxidant content, tea ferment extracts are being used for other purposes, such as helps in preventing hair loss and improving hair health. Our Tea ferment extract has been developed using a “Patent (Pending) hydrolysis process” further enhancing it’s functionality using “Nanotechnology”

INCI: Camellia Sinensis Leaf Extract (Enzyme Hydrolyzed), Alkaline water, Phenoxyethanol & Sorbate

KEY NUTRITIONAL SPECS	CONTENT RANGE	FUNCTIONAL BENEFITS/APPLICATION	
Botanic Nano-Actives % (Using Rapid Refractive Index)	Min 12%	Face masks, face cleansers, facial toners, sun lotions, toothpastes, mouthwashes, shaving creams, aftershave lotion, deodorant, shampoos, and hair detangles The anti-radical substances in tea extracts used as raw materials in cosmetology are beneficial to human skin, such as polyphenols, flavonoids, catechins, and vitamin	Skin/ Hair care & Conditioning
Secondary Metabolites (Data may vary subject to test conditions & product origin & growing environment/Season)	Total Flavonoid content: 20-35mg QE/gm dry weight Total Phenolic Content: 55-70 mg QE/gm dry weight		
pH	6-7		
Solubility	Water phase Soluble		
Specific Gravity	0.90-1.0		

Scientific literature References: * Appl. Sci. 2022, 12, 5874. <https://doi.org/10.3390/app12125874> <https://www.mdpi.com/journal/applsci> ** JOURNAL OF THE NATIONAL MEDICAL ASSOCIATION VOL. 97, NO. 8, AUGUST 2005.

Suggested Dosage in Skin/Hair care formulation:

S4-5%. The Ferment can be “Customized” based on “Botanic Nano-Active” % as per requirement

Packing, Shelf life & Storage conditions: Shelf life 18 Months. Store in ambient conditions preferably Cool Dry place, away from heat & Sunlight. Packing – 5 Kgs & 20 Kgs HDPE Cans.

We are also pleased to offer our “Tea Extract “based on Patent Pending (No.: 202341036475) Process Technology

MANUFACTURED BY: HELIXION BIOSCIENCES PVT. LTD, HYDERABAD, INDIA T: +91-9704166608, www.helixionbiosciences.in

MARKETING PARTNER: VAYU SPECIAL CHEM PVT.LTD, A-99, A-BLOCK, SECTOR-65, NOIDA UP-201301

for any queries pl. contact: raghav.n@vayuchem.com,