



## **HAIRONIX<sup>®</sup>-II**

### **A Fermentation-Based Hair Damage Repair Bio-Molecules.**

*Science of Fermentation, Power of Repair.*

---

#### **Welcome to Next-Gen Hair Care**

We believe the future of healthy, beautiful hair lies in biotechnology. By harnessing the natural power of **fermentation**, we've created formulas that go beyond surface care. They penetrate deeper, repair faster, and restore hair's natural strength and shine.

Fermentation breaks down natural botanicals into **smaller, more potent molecules**. The result Ingredients that are richer in amino acids, vitamins, and antioxidants and far more effective at healing damaged strands.

This collection is designed for hair that's been through it all coloring, heat styling, pollution, dryness, and breakage. It's time to reverse the damage, strand by strand.

---

#### **1. HAIRONIX<sup>®</sup>-II**

- **INCI :**

Aspergillus Ferment (and) Itaconic acid (and) arginine (and) Phenoxyethanol (and) potassium sorbate (and) sodium benzoat (and) ethylhexyl glycerin.

**(PATENT UNDER RAGISTRATION)**

- **Physical Description:**

Pale Yellow to Dark Yellow.

- **Use level : 2-10%**

---



# GENETIC BIOCHEM PRIVATE LIMITED

✓ **Key Benefits for Hair:** There are numerous benefits to using HAIRONIX-II in salon and home care formulations.

- Repair hair to the same standard as leading plex products
  - **Deep Repair of Hair Damage**
    - Breaks down actives into micro-molecules that can reach the inner hair cortex.
    - Repairs cuticle cracks caused by chemical treatments, heat, and pollution.
  - **Restores Elasticity & Strength**
    - Supplies fermented amino acids and peptides that rebuild protein structure.
    - Improves hair tensile strength and reduces breakage.
  - **Boosts Shine & Smoothness**
    - Seals lifted cuticles for a smooth surface.
    - Hair looks healthier, shinier, and silkier after just one use.
  - **Moisture Retention**
    - Enhances hydration inside the hair shaft.
    - Prevents dryness and split ends.
  - **Scalp & Root Health**
    - Balances scalp microbiome naturally.
    - Promotes stronger, healthier root growth.
  - **Quick Visible Results**
    - Unlike many ingredients, **Aspergillus Ferment shows repair effect in just one application.**
    - Ideal for **damaged, chemically-treated, or weak hair.**
- 
- **Cuticle Repair:** Restores integrity by filling gaps and sealing lifted cuticles.
  - **Cortex Strengthening:** Supplies peptides to rebuild keratin structure.
  - **Moisturization:** Enhances water retention and prevents protein loss.
  - **Elasticity & Tensile Strength:** Reduces breakage by reinforcing hair fiber.
  - **Antioxidant Protection:** Neutralizes oxidative stress from UV and pollution.

---

## Formulation Guidelines:

HAIRONIX-II is used in multiple products like Shampoo, Conditioner, Serum and other rinse-off products. It is completely soluble in water. It can be used in daily/weekly hair maintenance.

---

## Sustainability Commitment



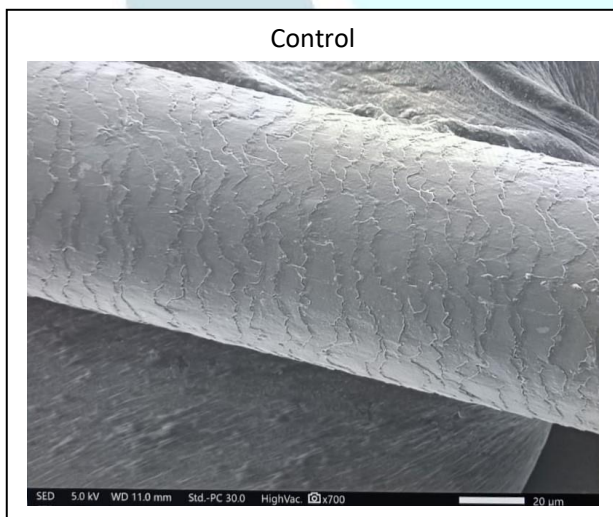
# GENETIC BIOCHEM PRIVATE LIMITED

- Our fermentation process is low-waste and eco-conscious. Every product is packaged in recyclable materials.
- Renewable sources

## Real Results:

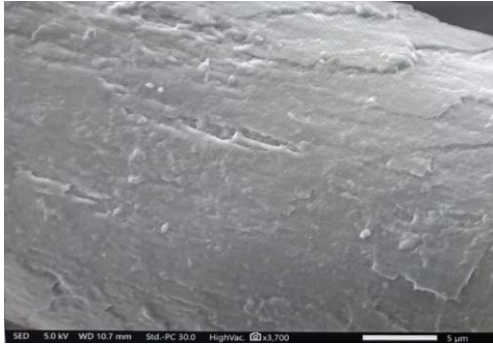
Asian hair patch test: 20% Haironix-II dilution In Distilled Water.

A test was conducted on 21 August 2025. The subject is 40 years old with highlighted, dry, and damaged hair. In the past, she has undergone multiple chemical treatments on her hair.

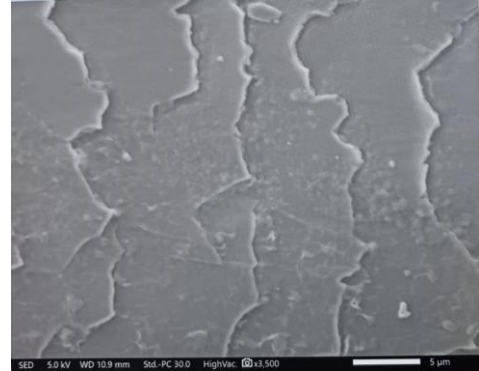




Control hair Surface (5  $\mu$ m) 3700x



Treated hair Surface (5  $\mu$ m) 3500x



## Sample Condition (Before Treatment):

- Hair cuticles were **lifted, broken, and irregular**.
- Severe **surface roughness** was observed.
- Presence of **gaps and cracks** along the hair shaft.
- Indicates **protein loss, dehydration, and structural weakness** caused by repeated chemical treatments.

## After Treatment with HAIRONIX-II Hair Repair:

- SEM images showed **smooth, compact, and aligned cuticle layers**.
- **Gaps and cracks reduced significantly**, with visible sealing of the cuticle surface.
- Hair shaft appeared **denser, hydrated, and more uniform**.
- Demonstrates **effective repair of surface damage and restoration of hair integrity**.

## Conclusion:

SEM analysis confirmed that HAIRONIXII–based **treatment visibly repairs damaged hair cuticles**, improves smoothness, and restores the protective barrier in just **one application**.

*"My hair feels stronger, smoother, and more alive than ever. This is the repair I've been searching for."* – Customer Review