

Applications & Market Reach

- ❖ Nutraceuticals & Dietary Supplements
- ❖ Functional Foods & Beverages
- ❖ Cosmetics & Personal Care
- ❖ Aquaculture & Feed Industry
- ❖ Eco-friendly Paints and Coatings



Contact Us

Iniya Bioprobes Private Limited

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Expanding Horizons – Algal Ink for the Paint Industry

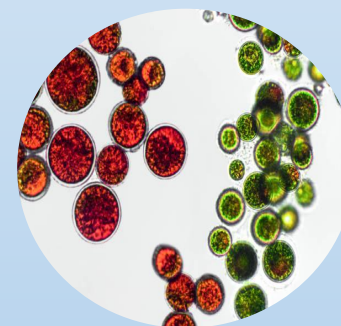
- Iniya Bioprobes explores the use of **algal pigments as natural colorants for eco-friendly paints and coatings**.
- These bio-based inks, produced from microalgal pigments such as astaxanthin, phycocyanin, and carotenoids, offer a **non-toxic, biodegradable, and renewable alternative** to synthetic and heavy-metal-based paints.
- Through **microencapsulation and advanced biopolymer formulation**, algal inks achieve **high color stability, UV resistance, and surface adhesion**, making them ideal for sustainable coating applications.

This innovation supports **global initiatives to reduce chemical pollution** and promotes India's transition toward **green manufacturing and a circular bioeconomy**



INIYA BIOPROBES PRIVATE LIMITED

*“Pioneering Sustainable Biotechnology for a
Brighter Tomorrow”*



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About Us

Iniya Bioprobes Pvt. Ltd. is a women-led biotechnology startup incubated at **BIRAC BioNEST Incubation facility, CSIR CFTRI, Mysuru**, committed to sustainable biomanufacturing through advanced microbial and algal technologies. **Winner of and funded by Elevate 2024 (Startup Karnataka)** and recognized under **Startup India (DPIIT)**, the company integrates molecular biotechnology and green innovation to create eco-safe, high-value bioproducts for global markets.



Innovation in Algal Biomanufacturing

Our proprietary technology leverages microalgae and microbial platforms for producing natural pigments and bioactives that replace banned synthetic colours in food, cosmetics, and nutraceutical industries.

Lead Product: Astaxanthin – A potent antioxidant and natural pigment from algae.

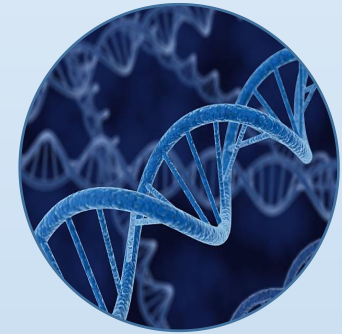
Bioactives Portfolio: Carotenoids, polyphenols, and algal extracts.

Key Focus: High purity, improved bioavailability, and sustainability.



CRISPR-Enabled Strain Improvement

We employ CRISPR and advanced genetic engineering tools to enhance pigment yield, facilitate efficient extraction, and reduce production cost. Our strain-improvement platform ensures optimized bioprocesses for industrial-scale production of bioactives.



Why Choose Algal Pigments Over Synthetic Dyes or Plant based pigments

- **Synthetic dyes** are often **toxic, carcinogenic, and environmentally persistent**, causing health and ecological harm.
- **Algal pigments** are natural, renewable, and rich in antioxidants — offering **vibrant, stable, and safe color alternatives**.
- **Algal pigments** are **eco-friendly, biodegradable, and comply with global regulations restricting the use of harmful synthetic colorants**.
- Unlike plant pigments, algae provide **faster growth, higher pigment yield, and year-round production** without seasonal limitations.