



# ORYUVAN™-PDRN (A GREEN PDRN)

Poly Deoxyribonucleotides – Rice bran/Embryo

ORYUVAN™-PDRN is a mixture of DNA fragments that are extracted from Rice Bran/Embryo. This is 100% plant source/ Vegan using Eco-friendly process without any hazardous chemical.



PRODUCT SPECIFICATION	
INCI NAME	Sodium DNA and Water and 1,2 Hexanediol and Butylene Alcohol and EthylhexylGlycerine
Appearance	Milky, opaque Liquid Suspension
DNA Content	4,500 mg/kg to 100,000 mg/kg, i.e, Min. 0.45% P onc. Product to 10% Concentration Product.
DNA Purity (UV Absorbance-260/280)	1.70 Ration of Absorbance (Purity 90-95%)
Recommended Dosage	0.5 - 1.5%

Helixion Biosciences has **Pioneered the PDRN technology where the specific focus has been in developing PDRN that has Rice Embyo/Bran as base & Banana Peel as base** as only both has certian % of DNA that matches with Human DNA in the Vegan Segment - Rice -25-30% & Banana - 50-55%. With this as Base infused with Rose/Cica/ Green Coffee/ Ashwagandha / Microbiome ( like Lactobacillus or Bifidobacterium ), Gensing & Keratin PDRN where with Sepsific blends of these is being worked out by our Scientists to cater both the Skin Care & Hair Care. segments.

**Efficacy Example: Green PDRN**

- Rice is rich in Phenolic Compounds, Betane and Squalene
- Demonstrated Anti Aging, Anti Inflammatory and Whitening

**Mechanism of Action**

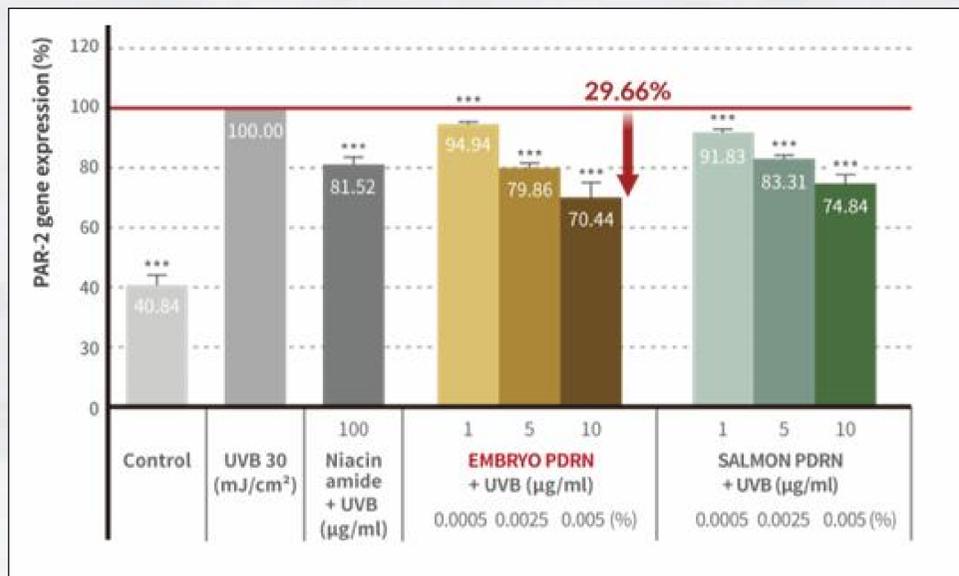
**PDRN (Poly Deoxyribonucleotides) helps in :**

- Provide Purines & Phyrimidine Rings to for the "Cell Savage Pathway"
- Generating Nucleotides & Nucleosides to contribute to DNA formation.
- Cell Proliferation leading to a faster tissue regeneration & wound healing.

**Role as ADENOSINE A24 Receptor Activator**

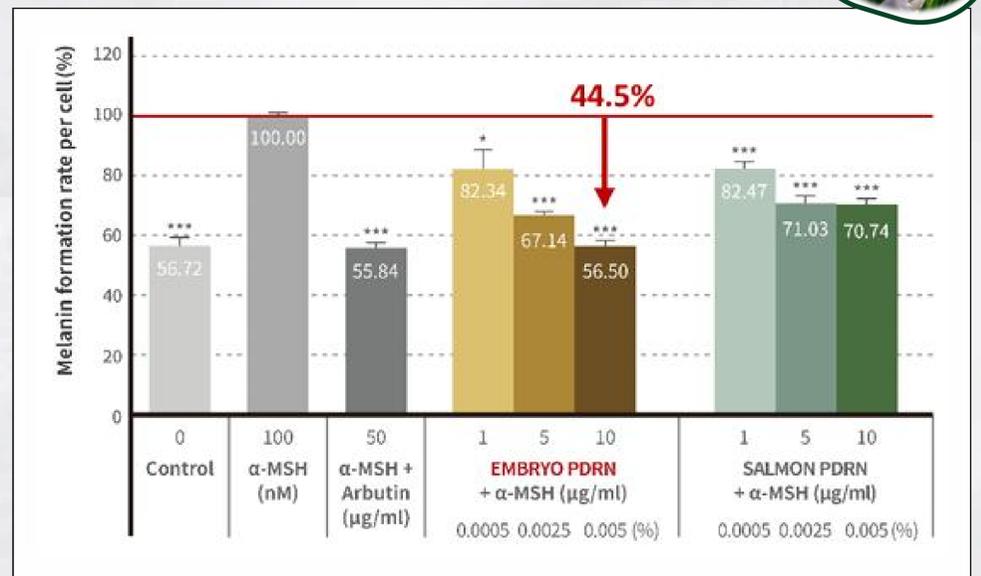
- This Helps in Anti-Inflammatory effect
- Also Enhances Skin Brightening
- Enhances Collagen Synthesis / Skin Regeneration thus has Anti Ageing Effect

## Inhibition of Melansome Transfer



Pichchapa L., Warintorn R., Natural Melanogenesis Inhibitor, Antioxidant, and collagen Biosynthesis stimulator of phytochemicals in Rice bran..., Plants(Base) 2023 Feb; 12(4):970

## Melanin Formation



Min young Um, Hyejin Yan, Rice bran extract supplement improves sleep efficiency and sleep onset in adults with sleep disturbance..., Scientific reports, (2019) 9:12339

**PACKAGING/ STORAGE/SHELF LIFE**

**Packaging :** Packed in 500gm Thermo insulated SS Bottles, Light shaking before use is recommended

**Storage :** To be stored at 28°C, keep the container closed, once opened it cannot be restored

**Shelf Life :** Shelf Life 2 Years from the date of manufacturing.