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PDRN



PDRN (polydeoxyribonucleotide) is a mixture of deoxyribonucleotides derived from a controlled purification process of Salmon Trout or Chum Salmon sperm DNA which makes sure its safety and stability. PDRN activates the adenosine A_{2A} receptors and generates nucleotides that can contribute to DNA formation, thus having a tissue repairing, wound healing and anti-aging effect. Therefore, it is widely used in mesotherapy & dermal fillers.



The beneficial effects of Polydeoxyribonucleotide (PDRN) was first found by Italy fishmen. Apply the salmon seminal vesicles containing PDRN on the wound surface, resulted in rapid wound healing.



SALMON

Proven Effective Applications of PDRN





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BloomseaNTM



Product name	INCI Name	Recommended usage	Applications
Polydeoxyribonucl eotide (PDRN)	Sodium DNA	0.1%-2%	Mesotherapy and dermal-filler

BloomseaNTM PDRN Polydeoxyribonucleotide

Repair & Anti-aging

Application

- Mesotherapy
- Dermal Filler
- Topical Use
- Personal Care
- Eye Drops









Salmon Trout Gonads

DNA extraction

Optimize DNA

PDRN



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Safety Evaluations



According to the requirements of ISO10993-5:2009/GB/T 16886.5-2017, the safety of BloomseaNTM PDRN raw materials is proved.



PDRN—Anti-aging and Repair



Promote the growth of human fibroblasts

Enhance collagen regeneration



Suppress cellular oxidative stress in skin cells

Minimizing inflammation

PDRN

Repair ultraviolet B (UVB)damaged dermal fibroblasts

Wound Healing



Skin Regenerative Repair

Anti-aging—Cell Regeneration, Anti-oxidation





Test shows: PDRN promotes the growth of human fibroblasts.

[Effect of polydeoxyribonucleotides (PDRN) on the incorporation of [³H]-proline into the proteins secreted by cultured fibroblasts]



Proline is one of the most highly represented amino acids in collagen. The cells cultured in the presence of PDRN enhance collagen synthesis and secretion into the medium.

[Antioxidative activity of PDRN]



Antioxidative activity was assessed by DPPH assay. PDRN showed antioxidant activities in a dosedependent manner, and those activities can suppress cellular oxidative stress in skin cells.

Repair—Anti-inflammatory, Wound Healing





PDRN can effectively decrease the inflammatory cell counts, indicating its anti-inflammatory effect.



In the in vitro scratch assay, a significant increase in percentage of wound closure was observed in the PDRN group compared with either the control group or the IL-1 β group, suggesting PDRN repairing effect on wound healing.