

YOUTHFILL[®]
PN



YOUTHFILL[®] **PN**

RFBIO
(주)알에프바이오

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Revolution in Aesthetic Medical Devices

PN (polynucleotide)

Polynucleotide refers to a biocompatible substance derived from DNA that promotes tissue regeneration and stimulates collagen and elastin production. It helps improve skin texture, elasticity, and overall appearance.

What makes it unique?

- I. PN-containing products induce the regeneration of damaged tissues to result in a more natural tissue regeneration.¹
- II. Recent studies demonstrated the efficacy and safety of long-chain polynucleotides injections in dermatology and aesthetic medicine for skin rejuvenation, both over the face and other body areas.²
- III. Acts as a physical support for ECM turnover and renewal.³
- IV. Characteristics of both viscosity and elasticity due to its viscoelasticity allow natural-looking results.

1. JH Kim et al. Comparative Evaluation of the effectiveness of novel hyaluronic acid-polynucleotide complex dermal filler. SCIENTIFIC REPORTS. 10:5127 (2020)
2. Maurizio Cavallini et al. Consensus report on the use of PN-HPT™ (polynucleotides highly purified technology) in aesthetic medicine. J Cosmet Dermatol. 20:922–928 (2021)
3. Sree Samanvitha Kuppa et al. Polynucleotides Suppress Inflammation and Stimulate Matrix Synthesis in an In Vitro Cell-Based Osteoarthritis Model. Int. J. Mol. Sci. 24(15) 12282 (2023)

Only Premium Quality Raw Materials

Our PN is manufactured using only the finest salmon milt sourced exclusively from HACCP agencies certified by the Federal Food and Drug Administration (FDA).

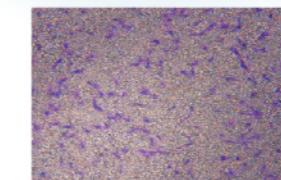
Clinically Proven Efficacy

Maximum Effectiveness with High PN Concentration

Clinical tests have demonstrated a strong correlation between the concentration of PN and the corresponding clinical test outcomes. With an elevation in PN concentration, there is a notable enhancement in cell viability and an improved wound healing effect. Similarly, an increase in PN concentration also leads to a more pronounced enhancement in cell migration effects.



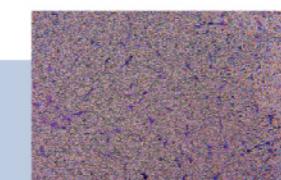
Control



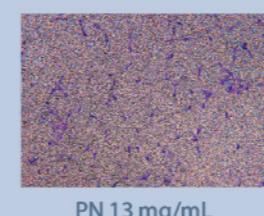
Positive Control (FBS)



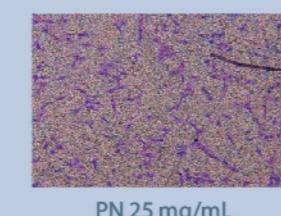
PN 1.3 mg/mL



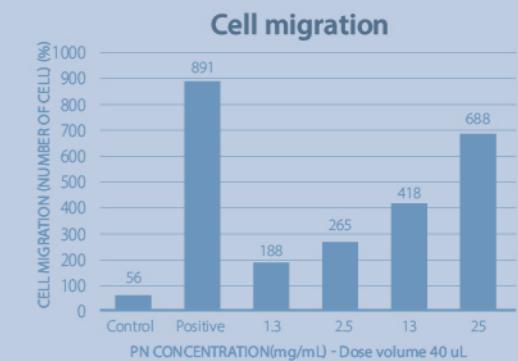
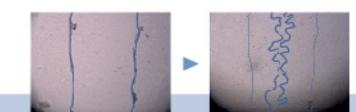
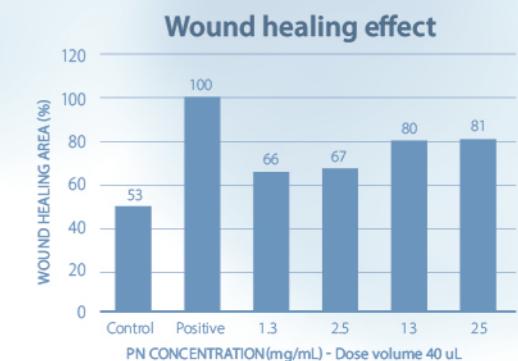
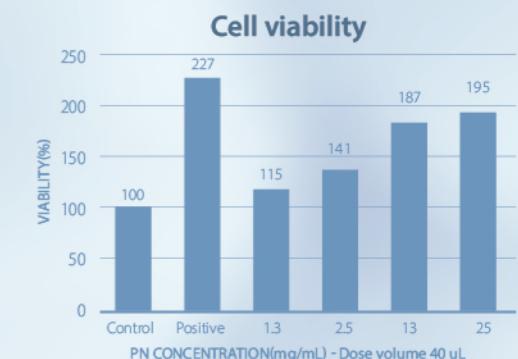
PN 2.5 mg/mL



PN 13 mg/mL



PN 25 mg/mL



High Concentration & Volume

High concentration

As the concentration increases, the PN characteristic improves, resulting in a higher-content product of enhanced quality.

High volume

Each syringe of Youthfill PN contains 2.5 mL of the product, enabling a complete facial treatment to be performed using a single syringe.

Product	Youthfill PN	Product A	Product B
PN content	25 mg/mL	20 mg/mL	20 mg/mL
Lidocaine content	Lidocaine (3 mg/mL) /non-lidocaine model	None	None
Volume	2.5 mL	2 mL	1 mL

Product	Youthfill PN ⁺	Product A	Product B
PN content	20 mg/mL	10 mg/mL	2 mg/mL
HA content	10 mg/mL	10 mg/mL	Crosslinked 20 mg/mL
Lidocaine content	Lidocaine (3 mg/mL) /non-lidocaine model	3 mg/mL	3 mg/mL
Volume	2.5 mL	1 mL	1 mL

PN Product Line's Main Effects



YOUTHFILL® PN

Purpose of Use

Used for temporary improvement on facial wrinkles in adults through physical repair by injecting subcutaneous polynucleotide.

Packing Unit

2.5mL x 1syr./Box

Storage

1-30°C

Needle

27G 8mm x 2ea

PN

25 mg/mL

YOUTHFILL® with LIDOCaine 2.5mL

Purpose of Use

Used for temporary improvement on facial wrinkles in adults through physical repair by injecting subcutaneous polynucleotide containing lidocaine. The lidocaine provides pain relief to the patient during the treatment.

Packing Unit

2.5mL x 1syr./Box

Storage

1-30°C

Needle

27G 8mm x 2ea

PN/Lidocaine

25 mg/mL / 3 mg/mL

YOUTHFILL® PN

Purpose of Use

Used for temporary improvement on facial wrinkles in adults through physical repair by injecting subcutaneous polynucleotide and hyaluronic acid.

Packing Unit

2.5mL x 1syr./Box

Storage

1-30°C

Needle

27G 8mm x 2ea

PN/HA

20 mg/mL / 10 mg/mL

YOUTHFILL® with LIDOCaine 2.5mL

Purpose of Use

Used for temporary improvement on facial wrinkles in adults through physical repair by injecting subcutaneous polynucleotide and hyaluronic acid containing lidocaine. The lidocaine provides pain relief to the patient during the treatment.

Packing Unit

2.5mL x 1syr./Box

Storage

1-30°C

Needle

27G 8mm x 2ea

PN/HA/Lidocaine

20 mg/mL / 10 mg/mL / 3 mg/mL