

YOUTHFILL®
PN



YOUTHFILL® **PN**

RFBIO
(주)알에프바이오

(주)알에프바이오 | RFBio Co., Ltd. 05203, 서울특별시 강동구 고덕비즈밸리로2가길 21 5층
5F, 21, Godeokbizvalley-ro 2ga-gil, Gangdong-gu, Seoul, Republic of Korea, 05203
T +82 2 561 1106 F +82 2 561 1107 H www.youthheal.co.kr

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.Samarvitha 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)

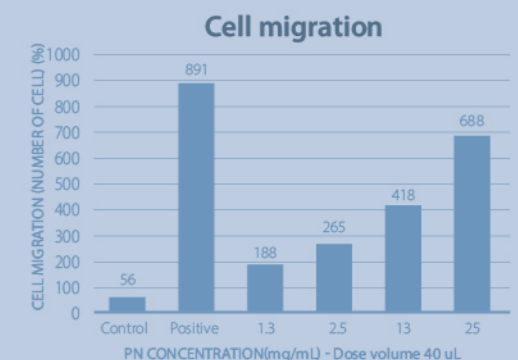
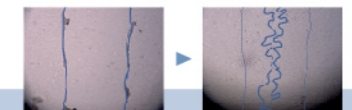
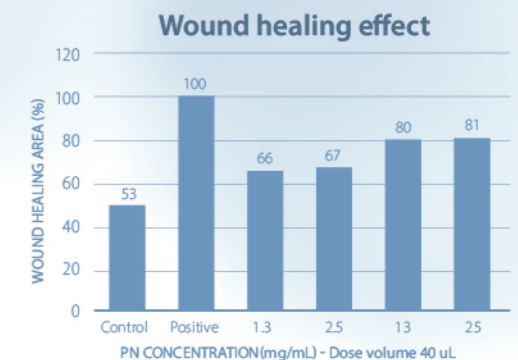
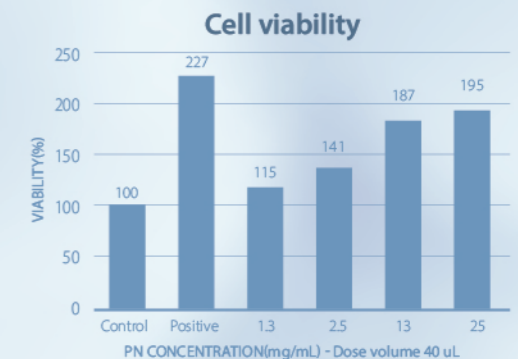
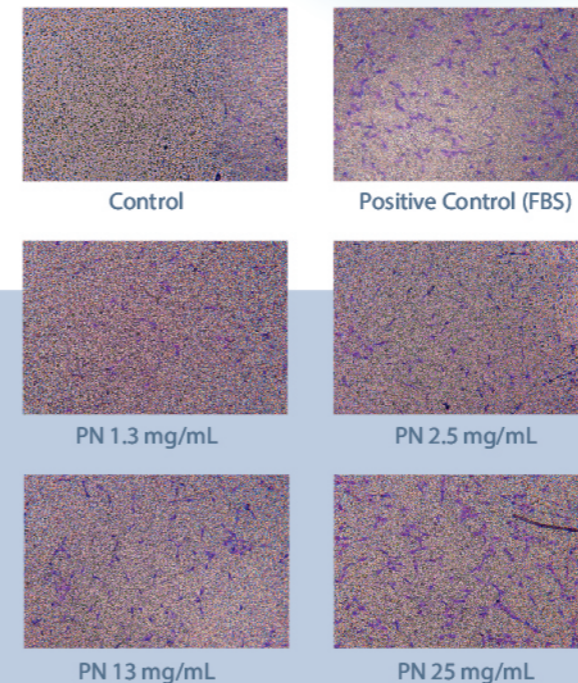
Only Premium Quality Raw Materials

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.



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

The image shows a box of Youthfill PN Polynucleotide and a syringe of the product. The box is white with black and gold text. The syringe is clear with a silver needle. Surrounding the product are several bubbles containing text describing its main effects:

- Treating Sun Damage
- Reducing Pores
- Moisturizing & Hydrating
- Smoothing & Firming
- Boosting Collagen Production
- Brightening & Revitalizing



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® **PN**
with LIDOCAINE

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® **PN+**
with LIDOCAINE

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