



# BIOFILLER<sup>®</sup>

*Designed by Logic ,  
Filled with Life*



# INTRODUCTION

## BIOFILLER®

An innovative cross-linked Hyaluronic Acid (HA) filler.

### ✓ **Advanced Microbead Technology**

Diverging from conventional gel formats, our unique engineering utilizes microbead technology to deliver exceptional results.

### ✓ **Optimal Satisfaction**

A distinctive formulation perfectly designed to satisfy the precise needs of both medical practitioners and patients.

### ✓ **Strict Compliance**

Manufactured under rigorous quality control systems, fully complying with [ISO](#), [CE](#), and [KFDA](#) standards.



Approved



certificate



Approved



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MEDICAL

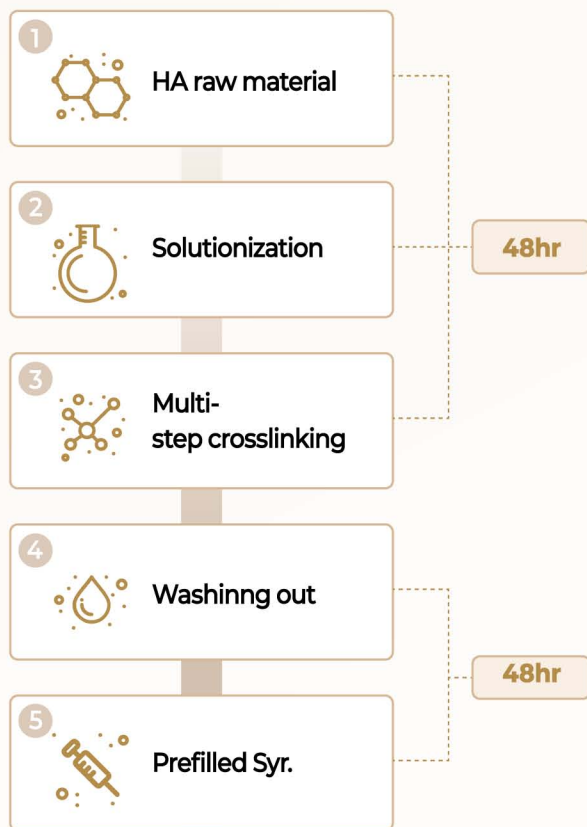
## FEATURES

# Safety & Purity



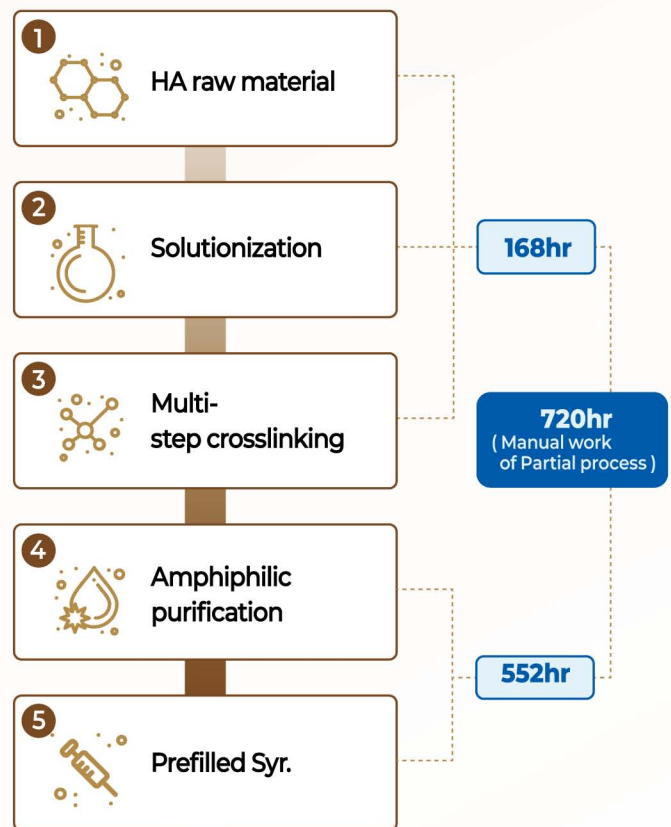
## Manufacturing time for filler

| Normal Products Agent   |           |
|-------------------------|-----------|
| Quantity per production | 30,000 mL |



**96 hrs**

| BIOFILLER® Agent        |          |
|-------------------------|----------|
| Quantity per production | 2,500 mL |



**720 hrs**

BIOFILLER®'s A Legacy of Dedication



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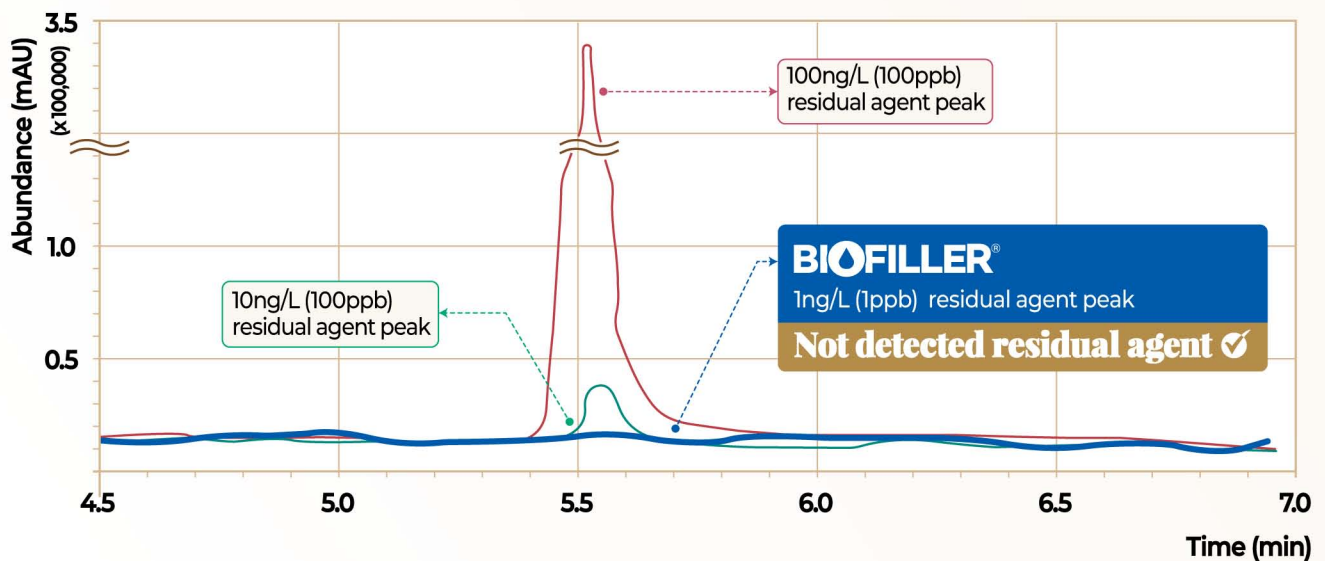


## FEATURES

# Safety & Purity



## Safety analysis via GC - Mass (residual agent amount)



### Verification of residual agent undetected through Multiple Degree Amphiphilic Purification

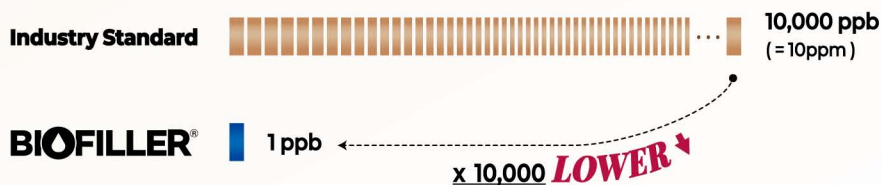
(Managed to less than 1ppb, which is 1/10,000th of the BDDE standard of 10ppm)

Residual cross-linking agents can cause toxic reactions and side effects.

BIO FILLER drastically minimizes this risk through advanced purification.



## Quantitative Comparison



**0.01%**

Only **0.01%** (1/10,000 th) of the conventional limit



## FEATURES

# Properties

## The Ultimate Bio-Filler Blend for Ideal Viscoelasticity

Our product provides an excellent volumizing effect through its high hydrophilic capacity and stable molecular structure, even with a high cross-linking rate.

### Practitioner-Friendly

Smooth injectability and ideal moldability.

### Patient-Centric

Natural facial expressions and long-lasting results.



## A variety of product lines based on TAN Delta values

|  Product (Filler)                         |  Tan $\delta$ |  Cohesiveness (N) |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>BIOFILLER<sup>®</sup> DEEP</b><br>     | 0.3                                                                                              | 0.7                                                                                                    |
| <b>BIOFILLER<sup>®</sup> LIGHT</b><br>    | 0.4                                                                                              | 0.5                                                                                                    |
| <b>BIOFILLER<sup>®</sup> STANDARD</b><br> | 0.5                                                                                              | 0.3                                                                                                    |

\* Tan  $\delta$  =  $G'/G''$  (A value that distinguishes whether the filler is solid (gel) or close to liquid)

\*  $G'$  (Change in external force; module or storage module)

\*  $G''$  (Energy lost to external force; loss module)



## FEATURES

# Volume & Duration

### Superior Hydrophilic Capacity

#### Robust & Stable Structure (High Cross-Linking Rate)

Advanced cross-linking technology builds a strong, stable molecular framework that maintains its integrity.

#### Exceptional Moisture Retention

Tightly binds water molecules, locking in moisture and effectively preventing hydration loss.

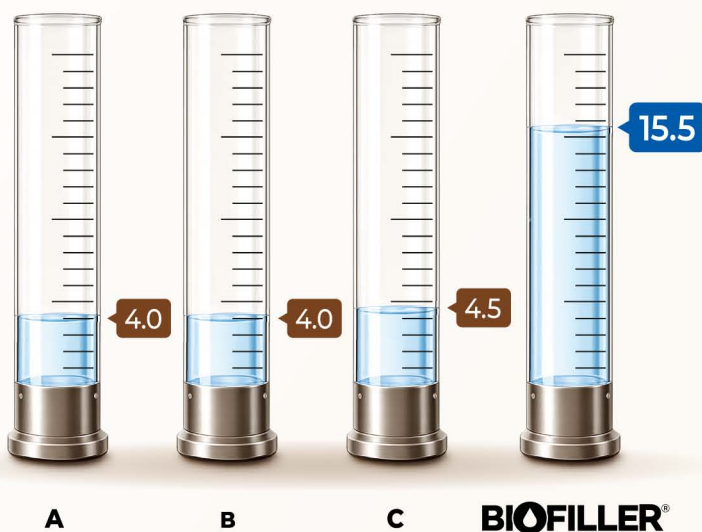
#### Maximum Volume with Minimal Amount

Delivers a powerful, long-lasting volumizing effect even with a minimal injection amount.



### Comparison of moisture retention

\* Data on file



Centrifugation at 3,000 rpm  
for 30 minutes

Status: 500cc of water added to sample of 1cc



**Shows higher volume effect**  
compared to other fillers  
of same amount



**Excellent volumizing effect  
and easy molding**  
even with a small amount

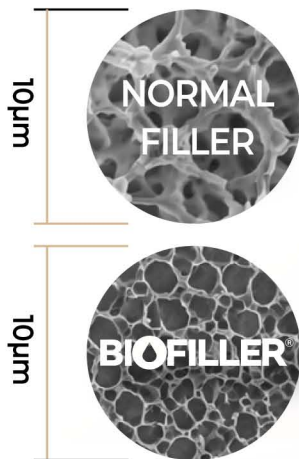




## FEATURES

# Low & Swelling

## Why BIO FILLER Causes Minimal Swelling?



### Optimized Pore Size

Smoother cross-section and smaller micro-pores than standard products.

### Controlled Capillary Action

Prevents excessive water absorption to maintain structural stability.

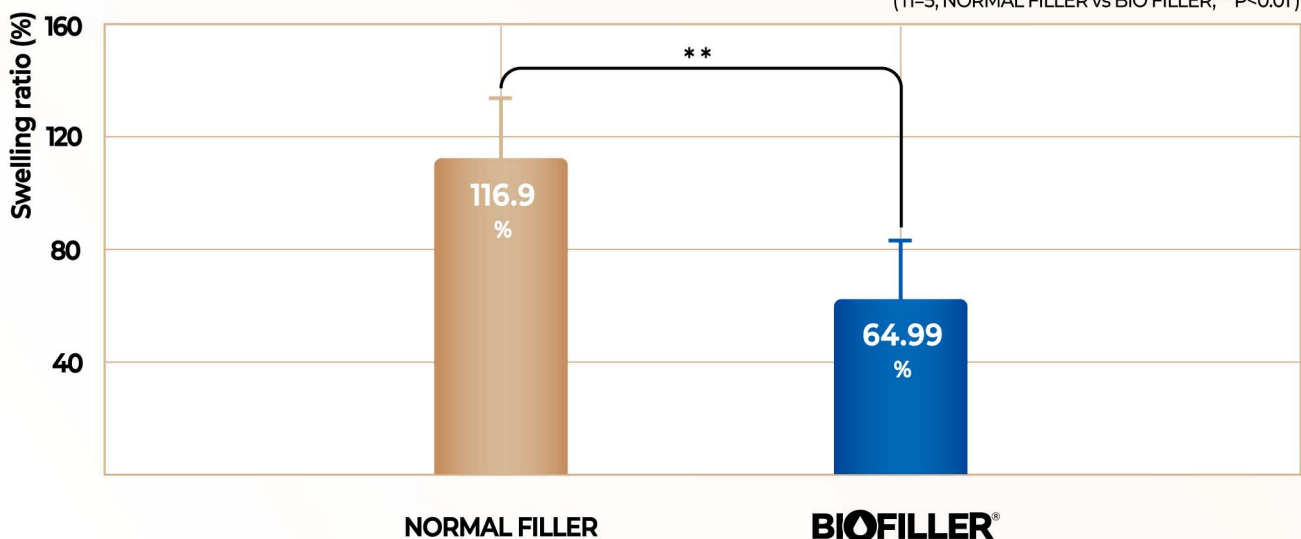
### Minimal Swelling

Absorbs less water to significantly reduce post-procedure swelling.



## Stability analysis through Swelling Test

(n=5, NORMAL FILLER vs BIO FILLER, \*\*P<0.01)



### Minimizing swelling through monophasic manufacturing method

Actual comparative data demonstrates a significantly lower level of swelling compared to competitor brands.



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# Specification

|                                                                                                                  | <b>BIOFILLER®</b><br><b>DEEP</b><br> | <b>BIOFILLER®</b><br><b>LIGHT</b><br> | <b>BIOFILLER®</b><br><b>STANDARD</b><br> |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <br><b>HA concentration</b>    | 20mg / ml                                                                                                             | 20mg / ml                                                                                                               | 20mg / ml                                                                                                                   |
| <br><b>Volume</b>             | 1ml x 1Syringe                                                                                                        | 1ml x 1Syringe                                                                                                          | 1ml x 1Syringe                                                                                                              |
| <br><b>Needle</b>             | <b>25G 13mm</b><br>UTW Needle<br>(Ultra Thin Wall)                                                                    | <b>27G 13mm</b><br>UTW Needle<br>(Ultra Thin Wall)                                                                      | <b>30G 13mm</b><br>UTW Needle<br>(Ultra Thin Wall)                                                                          |
| <br><b>Cross linking rate</b> | ★★★★☆                                                                                                                 | ★★★★☆                                                                                                                   | ★★★★☆                                                                                                                       |
| <br><b>Area used</b>          | Volume - Dermis                                                                                                       | Mid - Deep Dermis                                                                                                       | Mid Dermis<br>Fine Wrinkle                                                                                                  |



# Product application part

## Product application part

SkinPlus - HYAL and HyalDew allows a precise procedure for specific areas, and ensures a safe and effective result.



## Comparison of moisture retention



### Product line

#### BIOFILLER®

##### DEEP



- Forehead
- Nose
- Cheekbone
- Nasolabial
- Short chin

#### BIOFILLER®

##### STANDARD



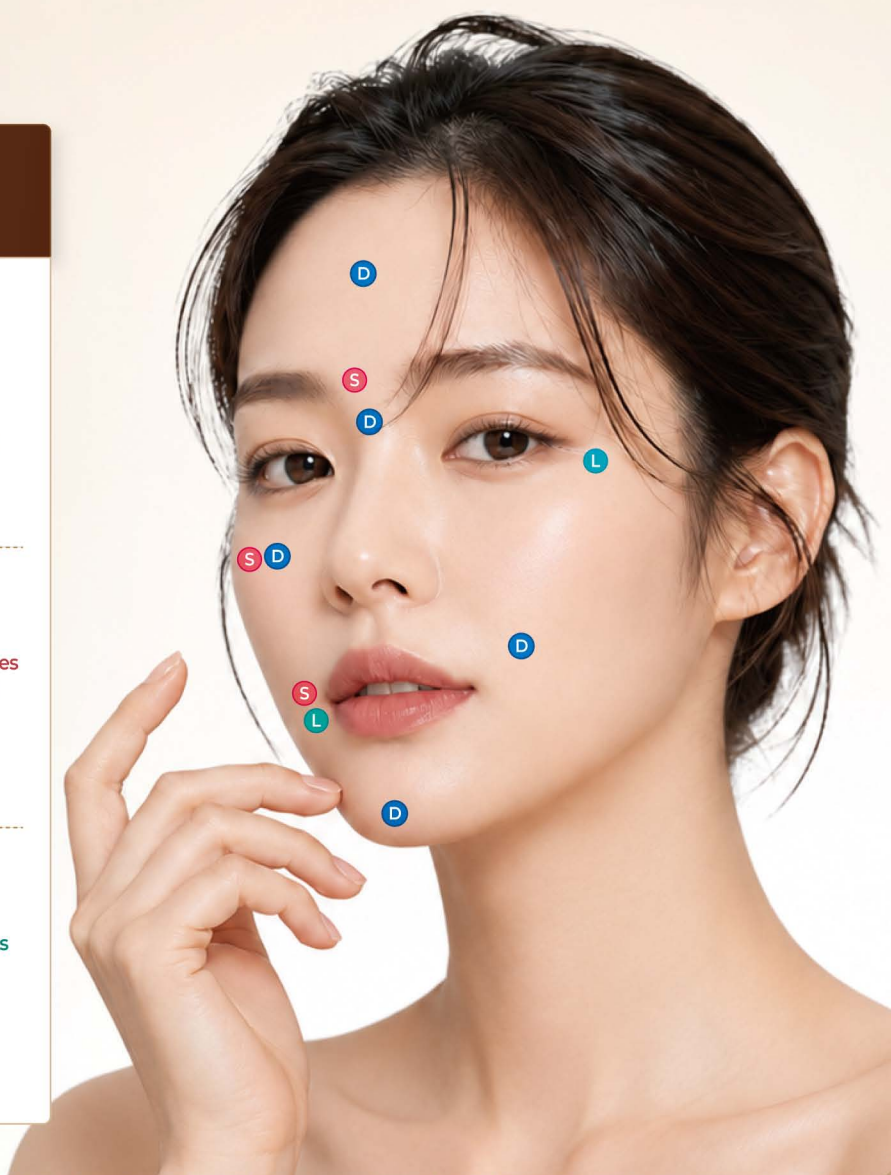
- Deep wrinkles
- Cheekbone
- Lip

#### BIOFILLER®

##### LIGHT



- Fine wrinkles
- Lip





**BIOFILLER®**

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