

Product I

: Hyafilia (HA dermal filler)

HyaFilia

A Natural, Safe and Long-lasting HA Filler



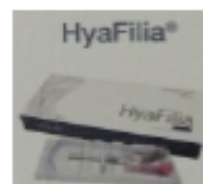
Hyafilia Specifications - general



► Specification

› Product Name	HyaFilia
› Classification	Medical Device
› Product	HyaFilia restoration biomaterial
› Reference no.	HyaFilia 1.0, HyaFilia 2.0, HyaFilia 3.0
› License No	13-872
› Ingredient	Non-animal, stabilized hyaluronic acid
› Description	Colorless, transparent, viscoelastic gel
› Application	Temporal improvement of face wrinkles
› Storage	Room temperature (1-30°C), avoid the direct light
› Shelf Life	Within 3 years of production date
› Packing Unit	1 ml, 2 ml, 3 ml syringe (including 27 G, 29 G needles)

HYAFILIA SERIES SPECIFICATION



Name	HyaFilia Petit	HyaFilia	HyaFilia Grand
Appearance	Colorless and transparent gel	Colorless and transparent gel	Colorless and transparent gel
Composition	Cross-linked hyaluronic acid 20mg/ml	Cross-linked hyaluronic acid 20mg/ml	Cross-linked hyaluronic acid 20mg/ml
Average grain size	200µm	500µm	1,100µm
Indications	Temporary improvement of facial wrinkles (Upper dermis)	Temporary improvement of facial wrinkles (Middle dermis)	Temporary improvement of facial wrinkles (Deep dermis or subcutaneous tissue)
Storage conditions	To be stored at room temperature (1-30°C) away from direct sunlight	To be stored at room temperature (1-30°C) away from direct sunlight	To be stored at room temperature (1-30°C) away from direct sunlight
Shelf life	36 months	36 months	36 months
Packaging units	1ml, 2ml, 3ml/Syringe (inc. 2 needles)	1ml, 2ml, 3ml/Syringe (inc. 2 needles)	1ml, 2ml, 3ml/Syringe (inc. 2 needles)
	HyaFilia Petit 1.0 : 27G, 29G	HyaFilia 1.0 : 27G, 29G	HyaFilia Grand 1.0 : 25G, 27G
	HyaFilia Petit 2.0 : 25G, 27G	HyaFilia 2.0 : 25G, 27G	HyaFilia Grand 2.0 : 23G, 27G
	HyaFilia Petit 3.0 : 25G, 27G	HyaFilia 3.0 : 25G, 27G	HyaFilia Grand 3.0 : 23G, 27G

HyaFilia Series

The half-life of natural HA administered in the body is very short, so it has to be modified in order to increase the stability in vivo.

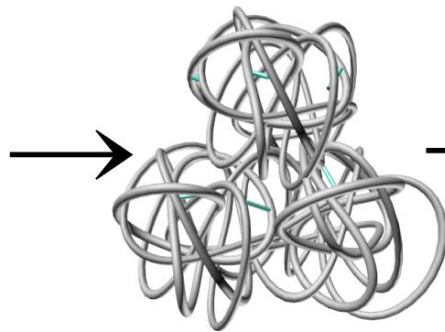
Hyaluronic acid (HA)



+

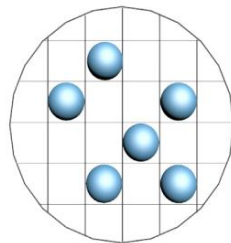
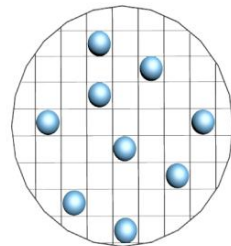
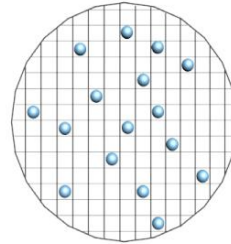


1,4-Butanediol diglycidyl ether (BDDE)

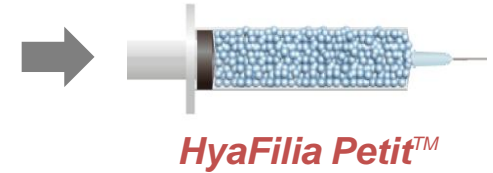


BDDE cross-linked HA

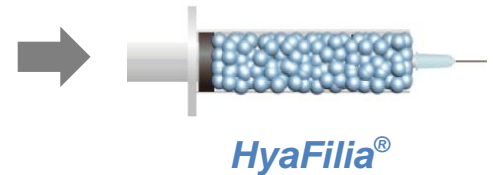
Gel separated through a mesh screen



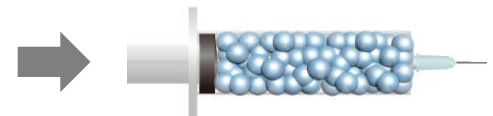
Different median particle sizes



HyaFilia Petit™



HyaFilia®



HyaFilia Grand™

Product II

- : Bio Cosmetics**
 - Evercell**
 - Dr. Cohen**

Evercell *by Chaum*

Bio Cosmetics by Human Stem Cell Technology



Characteristics

- Contains aseptically lyophilized (freeze dried) Human Stem Cell Conditioned Media such as various growth factors and cytokines secreted by stem cells during the cultivation.
- They reduce the appearance of wrinkles by promoting skin cell regeneration and whiten your skin for improved skin tone.

Youthful, vibrant skin

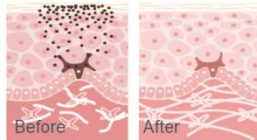
Stimulates dermal cells and promotes collagen production, reducing wrinkles and improving skin elasticity

A clearer, brighter skin tone

Prevents skin pigmentation by controlling melanin production; brightens and purifies skin tone by promoting cell regeneration

Evercell's Dual Functionality Mechanism

A dual functionality (anti-wrinkle, whitening) mechanism, purifying skin and improving elasticity by promoting skin cell recovery from within



Suppressed melanin production & increased metabolism

controls melanin production for whiter skin

Dermal cell proliferation & increased collagen: reduces fine lines and improves elasticity through faster recovery of damaged cells and increased collagen



Powerful anti-wrinkle effect

After 4 weeks, Clinical data (Female, 50)

Evercell Technology

CHA Stem Cell Research Institute has combined biological technology and cosmetics to create a revolution in skin rejuvenation technologies. The secret to youthful skin is hidden in stem cells

Dr. Cohen

Liposomal Growth Factor Cosmetics



Recombination of Placenta Extract

- Solving the safety problem of stem cell conditioned media
- Special recombination of growth factors for skin cell regeneration
- Stimulating the synthesis of collagen
- Preventing aging and pigmentation

Efficacy

Anti-wrinkle effect, whitening, improving elasticity, pore control

Product Configuration

Spirit (3 ml of liposomal growth factor mixture) (5 EA)

Anti- Scar effect (3 weeks later)

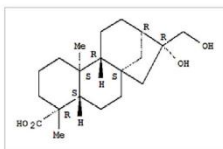


Anti-wrinkle effect (3 weeks later)



Plant-Derived Cosmetic Raw Material : CHA-SG1

SG-1 is an ingredient discovered through stem cell research and it stimulates stem cells within skin layers and plays a major role in rapid skin repair and restoration



DHK
(ent-16,17-dihydroxy-kauran-19-oic acid)



Extract (Leaves of Siegesbeckia pubescens)

Suppressed melanin production & increased metabolism

controls melanin production for whiter skin

Extract is very strong at UV-damage restoration and Epidermal regeneration (proliferation, migration)

- Keratinocyte stem/progenitor cells
- Valculogenic progenitor cells



Product III

: Growth Factors (Bio Materials)

Bio-material (Growth Factor)

WHAT IS GF?

- Naturally occurring substance capable of stimulating cellular growth, proliferation, healing, and differentiation. Growth factors are important for regulating a variety of cellular processes.
- Individual growth factor proteins tend to occur as members of larger families of structurally and evolutionarily related proteins. There are many families, which are listed below:



Raw material (CHA Growth Factor)

INCI명	Product code	학술명	Application		
			Anti-Aging	Anti-Pigmentation	Hair-care
sh-Oligopeptide-1	CHA-EGF	Epidermal Growth Factor	●		●
sh-Oligopeptide-10	CHA-MCP1	Monocyte Chemoattractant Protein-1 (CCL-2)	●	●	●
sh-Oligopeptide-14	CHA-RANTES	RANTES, Chemokine (C-C motif) ligand 5 (CCL-5)	●	●	●
sh-Oligopeptide-16	CHA-FK	Fractalkine, Chemokine (C-X3-C motif) ligand 1	●	●	●
sh-Polypeptide-1	CHA-FGF2	Fibroblast Growth Factor-basic	●	●	●
sh-Polypeptide-17	CHA-IL1a	Interleukin-1a	●	●	
sh-Polypeptide-18	CHA-IL1b	Interleukin-1b	●	●	
sh-Polypeptide-25	CHA-IL2	Interleukin-2		●	
sh-Polypeptide-26	CHA-FLT3L	Flt3 ligand	●	●	
sh-polypeptide-29	CHA-IL3	Interleukin-3		●	
sh-Polypeptide-36	CHA-IL17	Interleukin-17		●	
sh-polypeptide-41	CHA-IL5	Interleukin-5			
sh-Polypeptide-43	CHA-IL6	Interleukin-6	●		
sh-Polypeptide-44	CHA-Eotaxin	Eotaxin, Chemokine (C-C motif) ligand 5 (CCL-11)	●		
sh-polypeptide-46	CHA-IFN2	Interferon Alpha 2	●		
sh-Polypeptide-59	CHA-PDGFb	Platelet-Derived Growth Factor BB	●		
sh-Polypeptide-6	CHA-IL10	Interleukin 10			
sh-polypeptide-8	CHA-PDGFa (PDGF-AA)	Platelet-Derived Growth Factor AA			●
sh-Polypeptide-9	CHA-VEGF	Vascular Endothelial Growth Factor	●		●
rh-Polypeptide-45	CHA-GMC (GM-CSF)	Granulocyte-Macrophage Colony-Stimulating Factor	●		
sh-Polypeptide-7	CHA-HGH	human Growth hormone			
sh-Oligopeptide-2	CHA-IGF	Insulin-like Growth Factor	●		
rh-Polypeptide-4	CHA-SCF	Stem cell factor / KIT ligand			●
sh-Polypeptide-3	CHA-KGF	Keratinocyte Growth Factor	●		●