

# Imdermalab<sup>®</sup> PolysacGem

---

Molecular grade purified botanical polysaccharides.  
Moisturizing, brushed appearance without sticky  
feeling.



## Polysaccharides

---

Polysaccharide is a polymer composed of more than 10 monosaccharides. In the application of cosmetics, it can be used to replace chemical film formers, thickeners and humectant.

Polysaccharides have also been proven to have anti-aging and moisturizing properties, and are used as effective ingredients in cosmetics.

# Imdermalab<sup>®</sup> PolysacGem

---

- Natural Botanical Sources
- Polysaccharide thickeners
- Molecular Grade
- Purification Technology
- Improved skin texture
- Skin refreshes and moisturizes



**Tremella Fuciformis**



**Sempervivum Tectorum**



**Linum Usitatissimum  
(Linseed)Seed**



**Ergothioneine**

# Molecular Grade Purification Technology

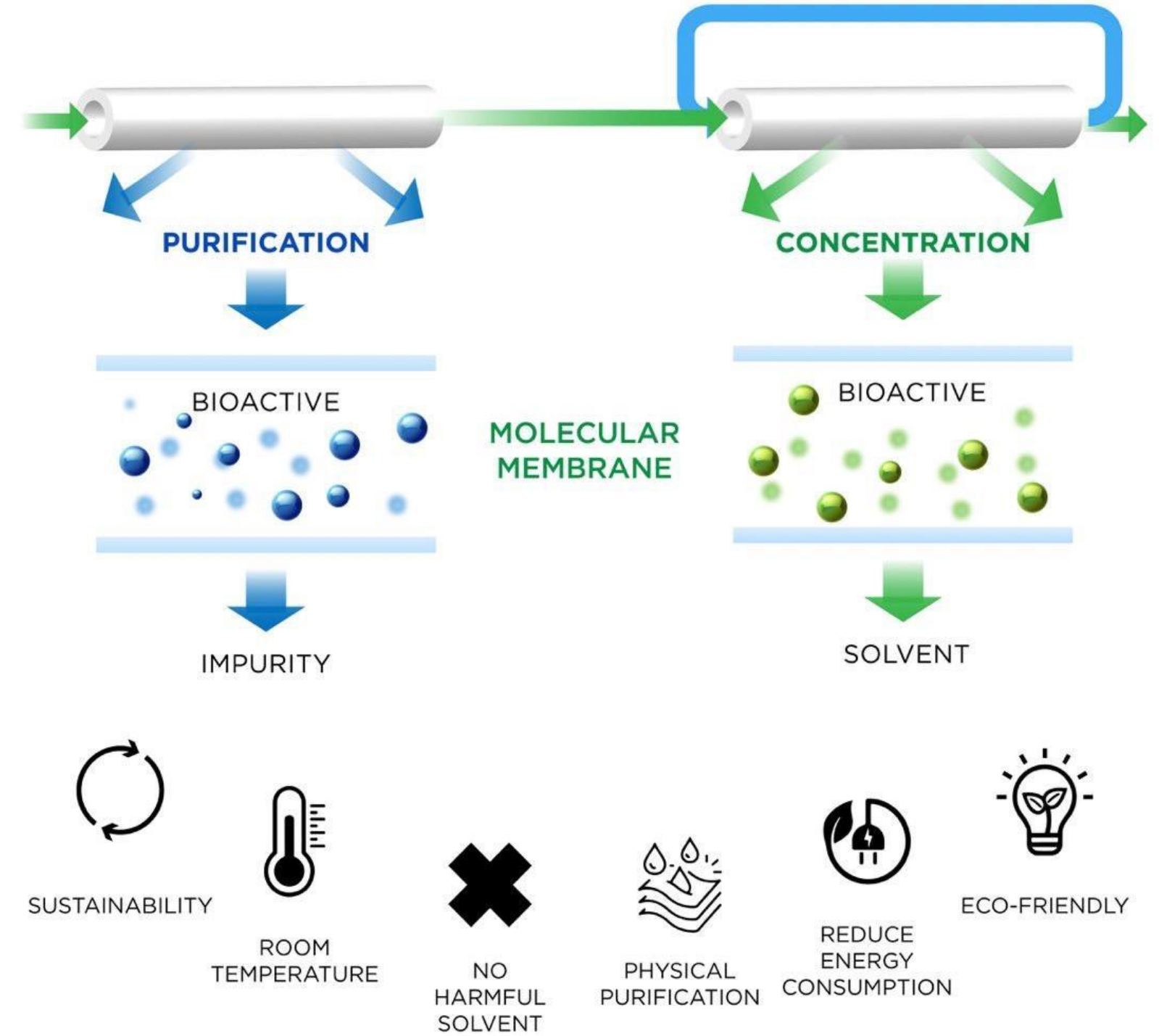
Exclusive green extraction technology with high purity but without irritant.

Using reusable molecular grade membrane (10<sup>-3</sup>-10<sup>-10</sup>m)

Improve **350%** of bioactive  
**400%** of efficiency

Reduce **80%** of energy  
**99.99%** of irritant

## MOLECUPURE



# Tremella Fuciformis

---

Tremella polysaccharide has extremely high moisturizing and anti-oxidant effects.

It can form a transparent film on the skin, making the skin smooth and soft, and increasing the skin's luster.



# Sempervivum Tectorum

---

With rich polysaccharides and polyphenols, it can effectively resist skin oxidation, and has astringent skin, calm skin inflammation, reduce skin redness.



# Linum Usitatissimum (Linseed)Seed

---

Linseed extract has good affinity and permeability to the skin, can form a film on the skin surface, reduce the loss of skin moisture, and keep the skin moist, smooth and elastic.



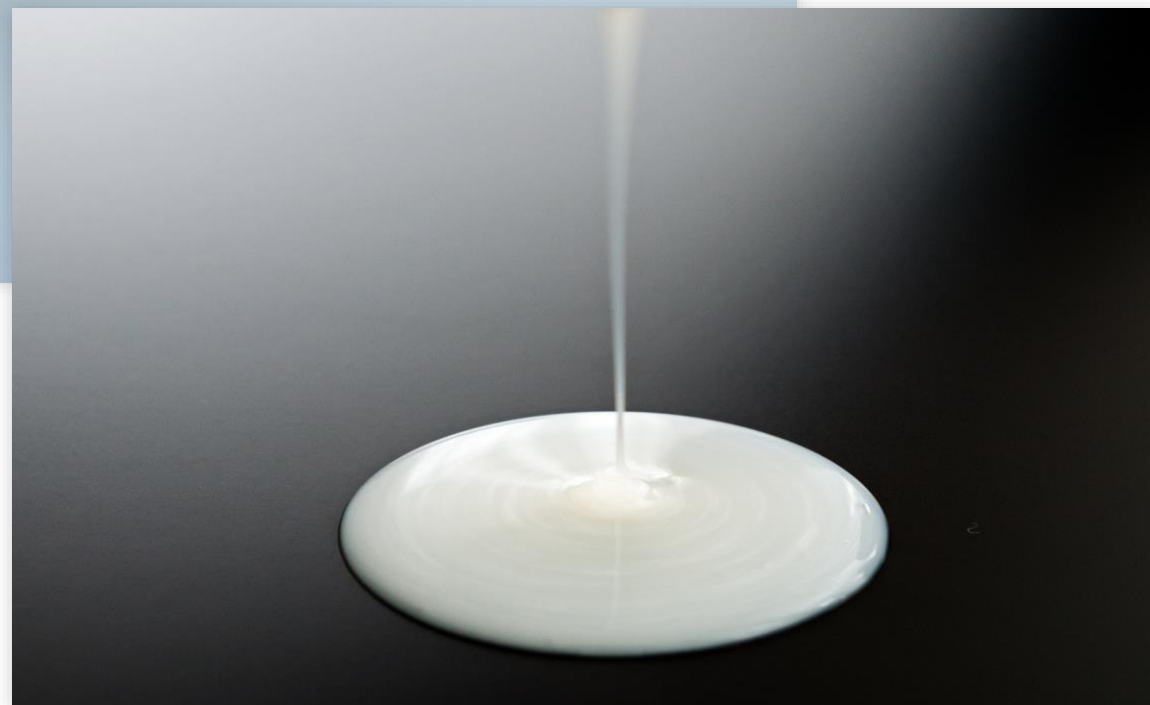
# Ergothioneine

---

Ergothioneine is a unique natural antioxidant that is effective in preventing skin oxidation, preventing wrinkles, reducing signs of skin aging and reducing photodamage in topical skin applications.



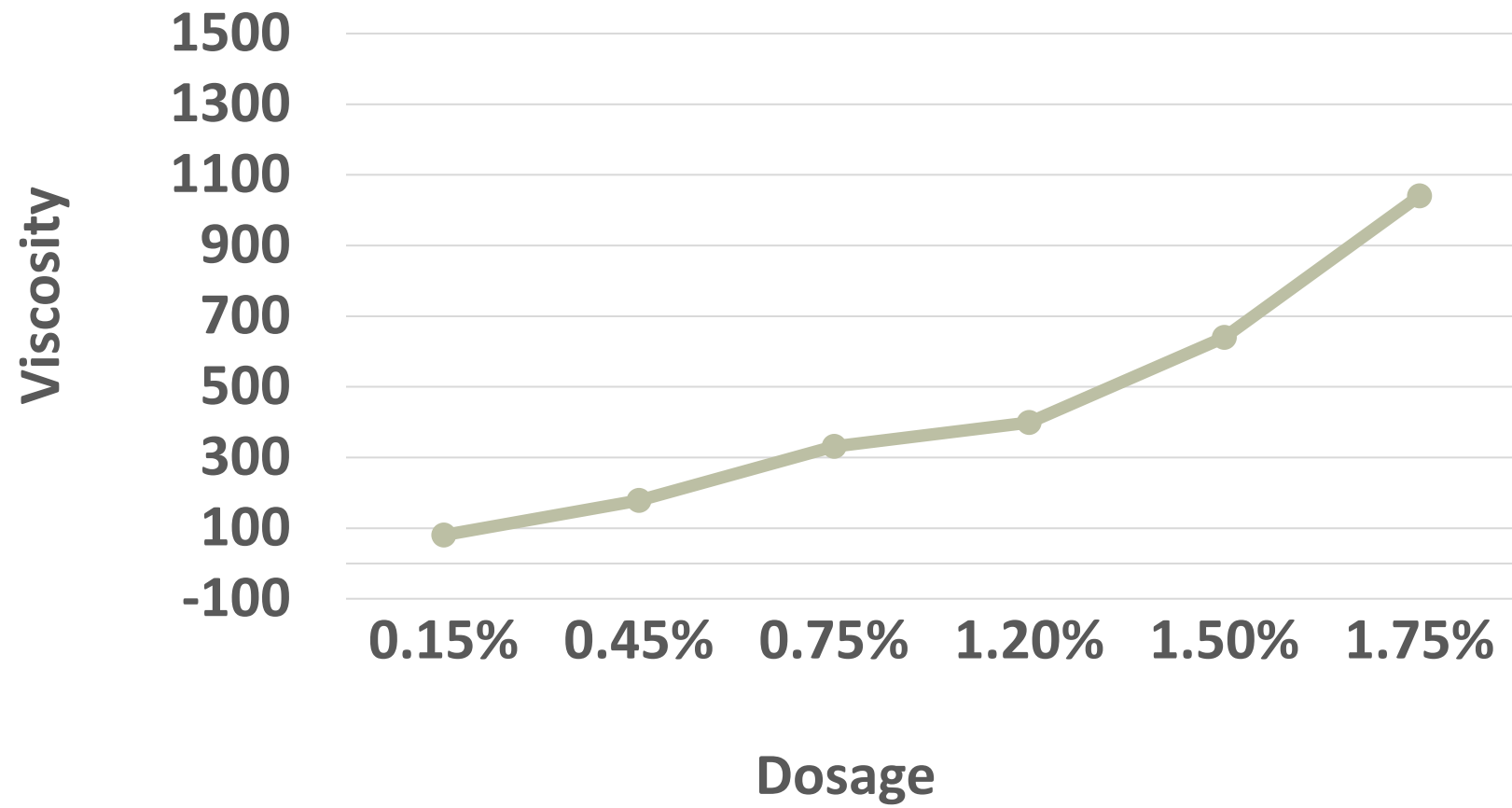




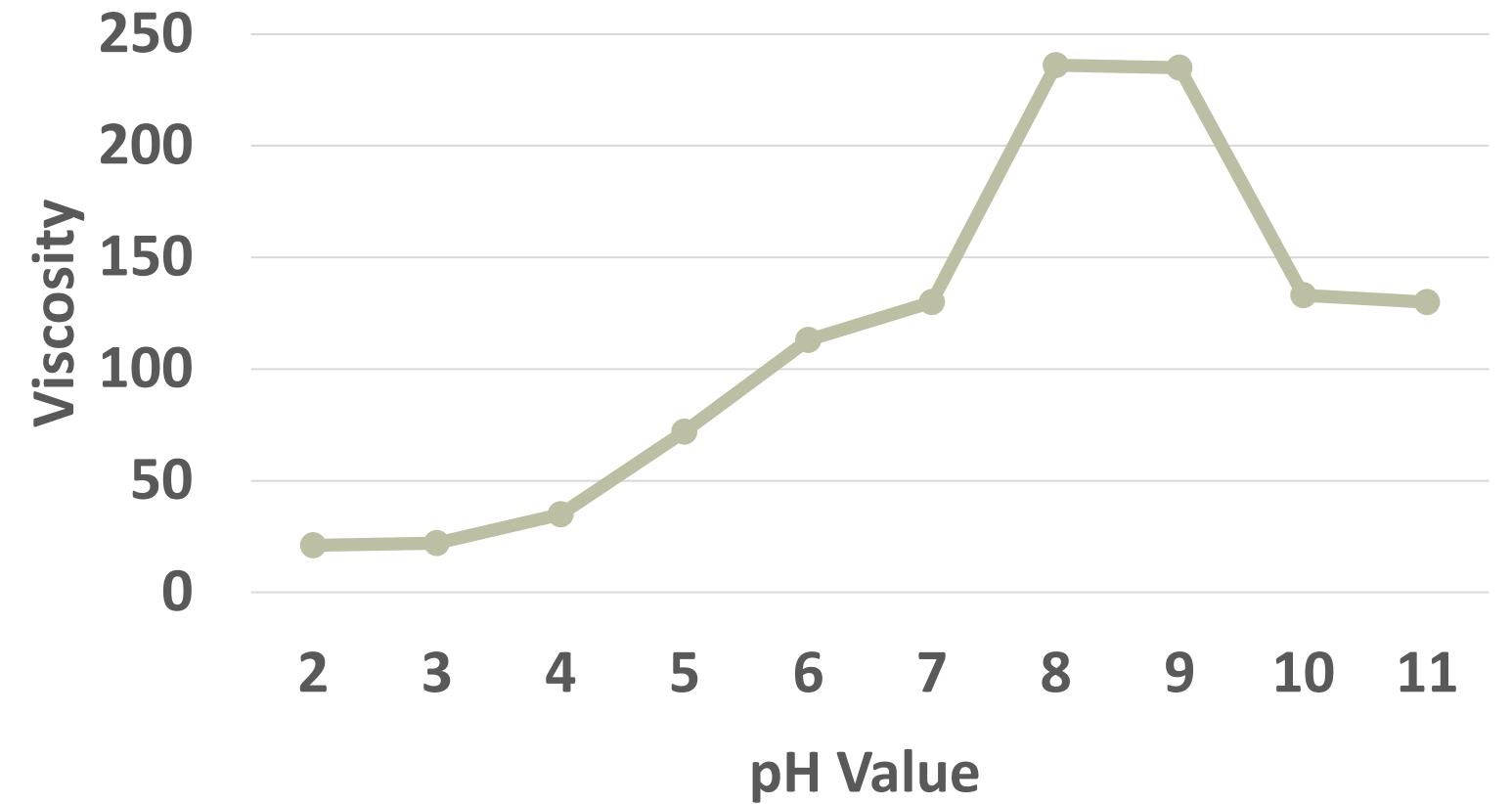
# Product application

1. Add formula to the aqueous phase for use.
2. As thickener, film former, moisturizing agent.
3. Leaves skin feeling fresh and silky
4. The brushed visual effect, the hyaluronic acid-like smearing feel, enhance the texture of lotion, cream and essence products.

**PolysachGem Viscosity change**



**The change of viscosity of 0.75% solution at different pH values**



**Indermalab<sup>®</sup> PolysachGem  
Viscosity Experiments**

PHASE	INGREDIENTS	INCI NAMES	%
A	WATER	WATER	97.05
	POLYSACHGEM	WATER ∙ SEMPERVIVUM TECTORUM EXTRACT ∙ PULLULAN ∙ LINUM USITATISSIMUM (LINSEED) SEED EXTRACT ∙ TREMELLA FUCIFORMIS(MUSHROOM) EXTRACT ∙ PROPANEDIOL ∙ ERGOTHIONEINE ∙ 1, 2-HEXANEDIOL ∙ CAPRYLHYDROXAMIC ACID ∙ ACRYLATES COPOLYMER	1.50
	MBAA	PROPANEDIOL ∙ 1,2-HEXANEDIOL ∙ CAPRYLHYDROXAMIC ACID ∙ LACTOCOCCUS/BEAN SEED EXTRACT FERMENT FILTRATE ∙ BUTYLENE GLYCOL ∙ PENTYLENE GLYCOL	1.00

1. Mix phase A until clear and transparent.

**Recommended formula of serum**

PHASE	INGREDIENTS	INCI NAMES	%
A	GA.N.GEL	Sodium Acrylates Copolymer (and) Lecithin	1.00
	ININ	ISONONYL ISONONANOATE	8.00
	L85	MINERAL OIL	2.00
B	WATER	WATER	86.50
	POLYSACHGEM	WATER ∙ SEMPERVIVUM TECTORUM EXTRACT ∙ PULLULAN ∙ LINUM USITATISSIMUM (LINSEED) SEED EXTRACT ∙ TREMELLA FUCIFORMIS(MUSHROOM) EXTRACT ∙ PROPANEDIOL ∙ ERGOTHIONEINE ∙ 1, 2-HEXANEDIOL ∙ CAPRYLHYDROXAMIC ACID ∙ ACRYLATES COPOLYMER	1.50
	MBAA	PROPANEDIOL ∙ 1,2-HEXANEDIOL ∙ CAPRYLHYDROXAMIC ACID ∙ LACTOCOCCUS/BEAN SEED EXTRACT FERMENT FILTRATE ∙ BUTYLENE GLYCOL ∙ PENTYLENE GLYCOL	1.00

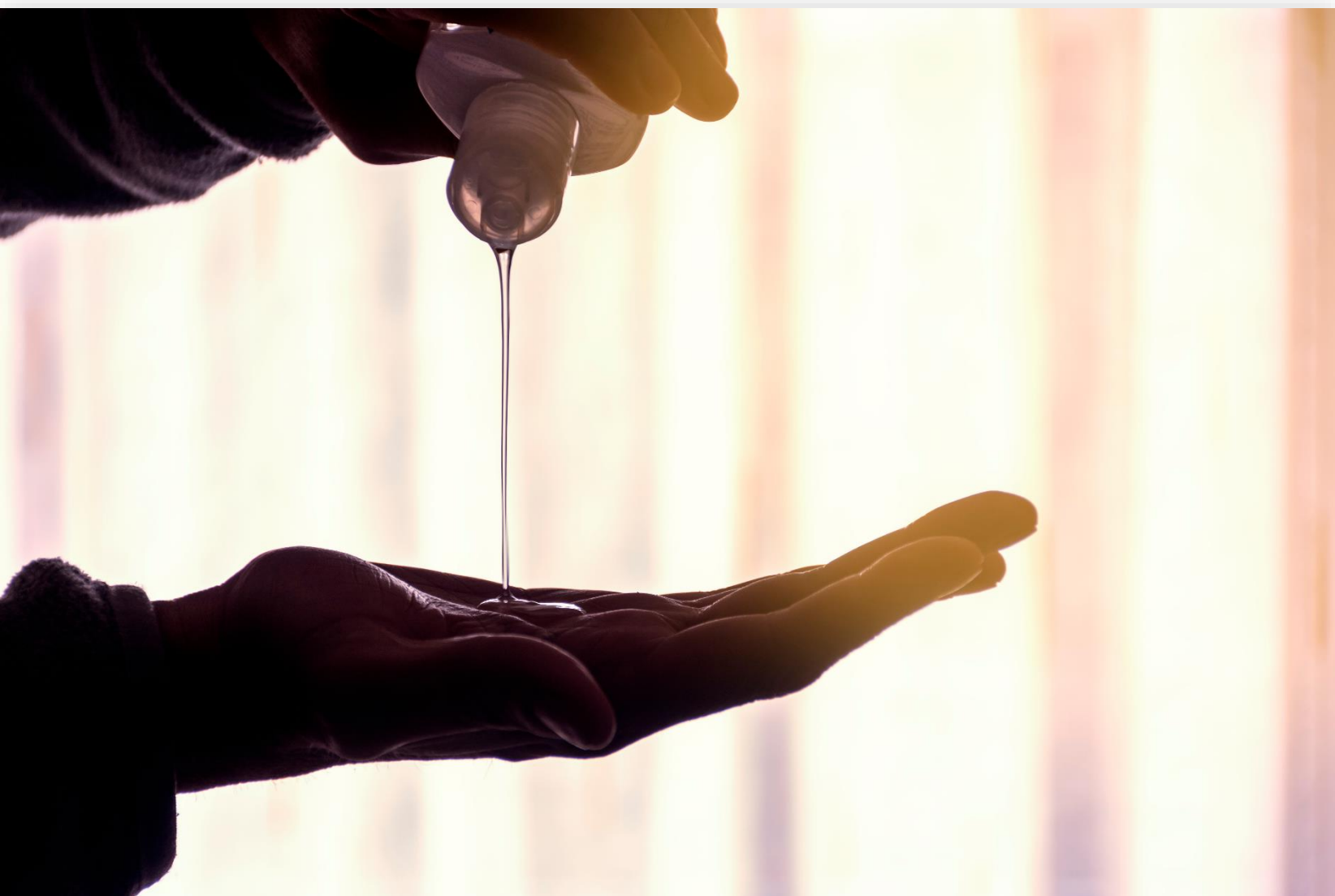
1. Weighing phase A and B respectively
2. Add B to phase A
3. Mix until emulsion is formed.

## Recommended formula of lotion

PHASE	INGREDIENTS	INCI NAMES	%
A	WATER	WATER	89.445
	XANTHAN GUM	XANTHAN GUM	0.40
	GLYCERIN	GLYCERIN	3.00
	TREHALOSE	TREHALOSE	1.50
	POLYSACHGEM	WATER ∙ SEMPERVIVUM TECTORUM EXTRACT ∙ PULLULAN ∙ LINUM USITATISSIMUM (LINSEED) SEED EXTRACT ∙ TREMELLA FUCIFORMIS(MUSHROOM) EXTRACT ∙ PROPANEDIOL ∙ ERGOTHIONEINE ∙ 1, 2-HEXANEDIOL ∙ CAPRYLHYDROXAMIC ACID ∙ ACRYLATES COPOLYMER	0.375
	MBAA	PROPANEDIOL ∙ 1,2-HEXANEDIOL ∙ CAPRYLHYDROXAMIC ACID ∙ LACTOCOCCUS/BEAN SEED EXTRACT FERMENT FILTRATE ∙ BUTYLENE GLYCOL ∙ PENTYLENE GLYCOL	1.00
	DC-193	PEG-12 DIMETHICONE	0.50
B	V-CORATIGHT	WATER (AND) HYDROLYZED COLLAGEN (AND) CAULERPA LENTILLIFERA EXTRACT (AND) HYDROLYZED CORAL (AND) ISOPENTYLDIOL (AND) BUTYLENE GLYCOL (AND) PROPANEDIOL (AND) 1, 2-HEXANEDIOL (AND) CAPRYLHYDROXAMIC ACID	2.00
	ROYAL JELLY PEPTIDE	WATER (AND) HONEY(AND)ROYAL JELLY EXTRACT (AND) CARNOSINE (AND) PROPANEDIOL (AND) 1, 2-HEXANEDIOL (AND) (AND) CAPRYLHYDROXAMIC ACID (AND) XANTHAN GUM	1.00
C	9111	POLYSORBATE 20 (AND)OCTOXYNOL-11	0.60
	SENSIGUARD	CAPRYLIC/CAPRIC TRIGLYCERIDE ∙ LITSEA CUBEBA FRUIT OIL ∙ EUGENIA CARYOPHYLLUS ( CLOVE ) FLOWER EXTRACT ∙ SANTALUM ALBUM ( SANDALWOOD ) OIL ∙ ZANTHOXYLUM ALATUM EXTRACT ∙ MENTHA PIPERITA ( PEPPERMINT ) OIL	0.10
	FRAGRANCE	FRAGRANCE	0.05
D	CITRIC ACID	CITRIC ACID	0.03

1. Mix phase A until clear and transparent.
2. Add phase B in sequence
3. Mix phase C into (A+B)
4. Add phase E and mix.

## Facial mask recommended formula



# Imdermalab<sup>®</sup> PolysacGem

## Product Appeal :

Improved Skin Texture

Skin Refreshes And Moisturizes

## Product Specifications :

Origin : Taiwan

Dosage : 0.1% -2.0%

pH Values : 4-9

Appearance : White Powder

## INCI :

WATER ∙ SEMPERVIVUM TECTORUM EXTRACT ∙ PULLULAN ∙  
LINUM USITATISSIMUM (LINSEED) SEED EXTRACT ∙ TREMELLA  
FUCIFORMIS EXTRACT ∙ PROPANEDIOL ∙ ERGOTHIONEINE ∙ 1, 2-  
HEXANEDIOL ∙ CAPRYLHYDROXAMIC ACID ∙ ACRYLATES  
COPOLYMER