



Dr. DMAΣ

SOLUTION ESSENCE

Purple



Rejuvenate your skin with Dr. DMAE



- ✓ Optimal ingredient formulation for anti-aging
- ✓ New tightening treatment concept containing DMAE
- ✓ Premium skin booster to solve various skin complex



DR. DMAE
SOLUTION ESSENCE

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Dr. DMAE Solution Essence Purple is a skin booster consist of DMAE, PDRN and non-crosslinked hyaluronic acid. The active ingredients are absorbed into the skin to provide strong tightening, skin rejuvenation and moisturizing effects.

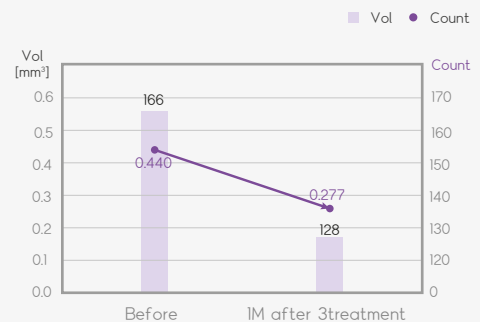
Dr.DMAE - 3 sessions (Left Side)



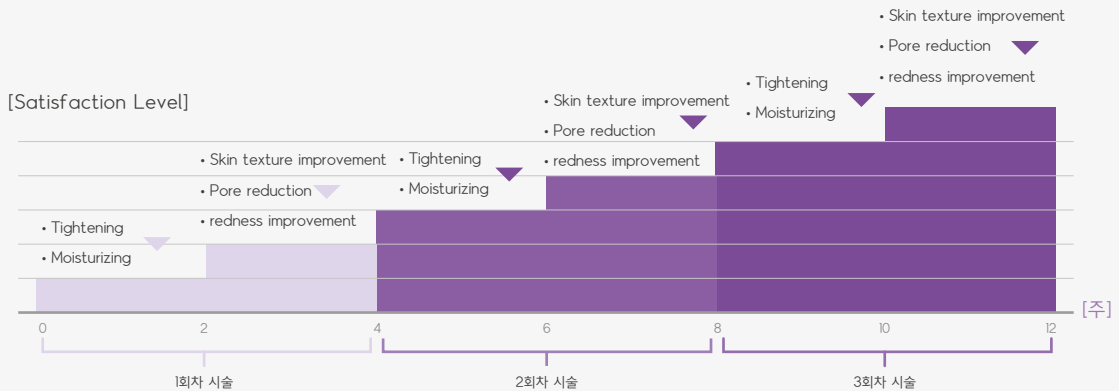
Before



1M after 3treatment



Treatment satisfaction after Dr. DMAE



After being absorbed into the skin,

DMAE keeps the tightening effect continue for 4 to 8weeks after the procedure.

Thanks to that, the patient's satisfaction much increases as every repeated treatment.¹⁾

1) Ref. 기문상 외 23명, 『피부 진피재생 스킨부스터와 피부장벽, 물광주사』 엠디월드 (2019), 592-601



DMAE¹⁾ (Dimethylaminoethanol)

- A precursor of acetylcholine (neurotransmitter) - increase the synthesis of acetylcholine
- As a hydrophilic molecule with a very small molecular weight, it easily penetrates into the epidermis and dermis
- Improves Skin elasticity, Fine lines, Pores / Improves dermal layer environment

PDRN²⁾ (Polydeoxyribonucleotide)

- DNA fragment purified from salmon
- Excellent biocompatibility (sequence similar to the human body), minimal side effects
- Skin rejuvenation, Promote wound healing

HA³⁾ (Hyaluronic Acid)

- Natural moisturizing factor contained in the human body, Main component of extracellular matrix (ECM)
- Excellent water holding capacity, moisturizing and soothing effect
- Together with collagen, it is involved in skin elasticity and skin aging

1) Ref. Paula Souza Prestes (2013). Development, physical-chemical stability and rheological behavior of silicones formulations containing Dimethylaminoethanol (DMAE). Journal of Applied Pharmaceutical Science Vol. 3 (02), pp. 001- 005

2) Ref. Francesco Squadrito (2017). Pharmacological Activity and Clinical Use of PDRN. Frontiers in Pharmacology 8:224.

3) Ref. Vic A Narurkar (2016). Rejuvenating Hydrator: Restoring Epidermal Hyaluronic Acid Homeostasis With Instant Benefits. J Drug

Ref. Weindl G. (2004). Prevention of Skin Diseases: Molecular Biological, Pharmaceutical and Clinical Aspects. Skin Pharmacol Physiol ; 17:207?213

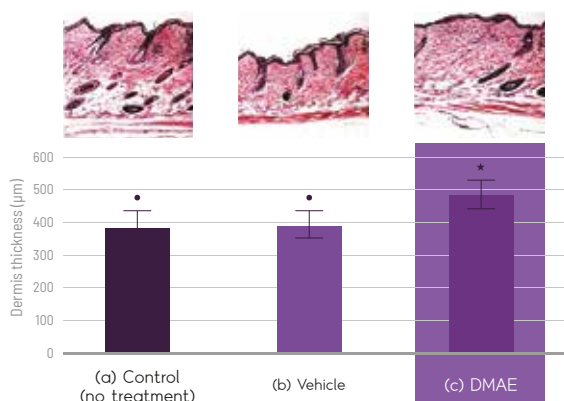
DMAE Academic reports

1. Clinical application^{1) 2)}

- ① According to Su Liu, when DMAE compound reaches the target tissue, it has an anti-aging effect by increasing collagen synthesis and improving skin thickness.
- ② Rachel Grossman has found that applying DMAE Gel helps to reduce wrinkles on the forehead, around the eyes and improves the lip shape and skin condition.

2. Action in the dermis^{2) 3)}

DMAE has the effect of reducing protein cross-linking (characteristic of cell aging) as well as antioxidant effect and cell membrane stabilization. In addition, it slows down the aging of the dermis and controls various cytokines to show anti-inflammatory effects.



Increase in skin layer thickness

As we age, collagen and skin thickness decrease.

K.A. Tandini et al. confirmed that the overall skin condition was restored by improving the thickness of the dermis with a compound containing DMAE.

Ref. K.A. Tandini (2009). In vivo skin effects of a dimethylaminoethanol (DMAE) based formulation. Pharmazie 64: 818-822

Skin improvement effect

DMAE improves facial wrinkles, sagging skin and increases lip volume²⁾

Statistical differences^{a)} between DMAE [n=105] and placebo (n=51) groups in secondary efficacy parameters following 16 weeks of 3% topical DMAE facial gel application in a double-blind, placebo-controlled trial^[17]

Parameter	Week2	Week4	Week6	Week12	Week16	Week18 (2-week regressing phase)
Forehead lines	p<0.068		p<0.023	p<0.012	p<0.068	p<0.012
Under-eye dark circles		p<0.08				
Increased lip thickness	p<0.034	p<0.058	p<0.021	p<0.130	p<0.023	p<0.024
Increased lip shape		p<0.05	p<0.05	p<0.050		p<0.073
Improved sagging neck skin						p<0.088

a) Values of p≤0.05 appear in bold and indicate statistically significant differences in the DMAE group compared with the placebo group; values of p>0.05 but ≤0.1 indicate trends in improvement with DMAE facial gel application compared with placebo gel application.

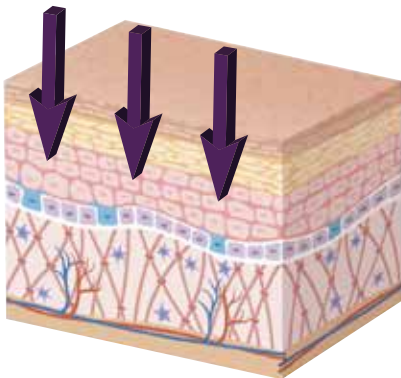
1) Ref. Su Liu(2014). Effects of Dimethylaminoethanol and Compound Amino Acid on D-Galactose Induced Skin Aging Model of Rat. The Scientific World Journal:507351

2) Ref. Rachel Grossman(2002). The Role of Dimethylaminoethanol in Cosmetic Dermatology.Am J Clin Dermatol; 6 (1): 39-47

3) Ref. G. Morissette, L. Germain (2007). The antiwrinkle effect of topical concentrated 2-dimethylaminoethanol involves a vacuolar cytopathology. Br J Dermatol;156(3):433-9.

Dr. DMAE Application

How to use Dr. DMAE Solution Essence Purple



It can produce the optimal effect when delivering the active ingredients of Dr. DMAE Purple by making micro holes on the skin surface.

*The application of Dr. DMAE after the ablative laser treatment helps to maximize the rejuvenation effect.

Types of DDS (Drug Delivery System)

MTS
(Microneedle Therapy System)



KAISER 300



CO2 Fractional Laser



Dr. DMAE Purple Effects





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Ingredients

DMAE(Dimethylaminoethanol)
PDRN(Polydeoxyribonucleotide)
HA(Hyaluronic Acid)

Endotoxin Unit: 0.1 EU/ml or less**
*Molecular weight: 2.5 million kDa

Main effects

- DMAE(Dimethylaminoethanol) for facial skin tightening and pore minimizing
- PDRN(Polydeoxyribonucleotide) for quick skin healing
- Non-crosslinked hyaluronic acid restores skin moisture and elasticity

Protocol

- Apply after using Laser, Needle RF for penetrating multi tiny hoels on skinsurface
- Apply after MTS(Microneedle Therapy System) rolling

Recommended procedure cycle

Stage 1 – Once a week for 1 month
Stage 2 – Once every 2 weeks for 2 months
Stage 3 – Once every 4 weeks for 4 months

* The treatment cycle may vary depending on the treatment method.

Storage

Keep it stored in room temperature(1~30℃) and out of direct sunlight

Package

1 Box: 3.5mL X 5vials

Precautions

1. Don't apply it in the infected wounds (wounds that turn red, have a greasy, feverish or edema)
2. If you have rash, fever, allergic reaction or infection symptoms while using this product, do not use it and consult a specialist
3. In case of hypersensitivity to the products ingredients, please us it under the direction of a doctor.



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