

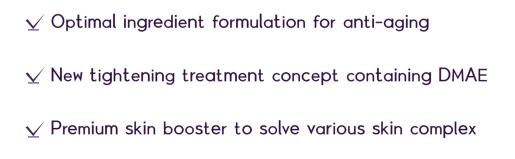






Rejuvenate your skin with Dr. DMAE

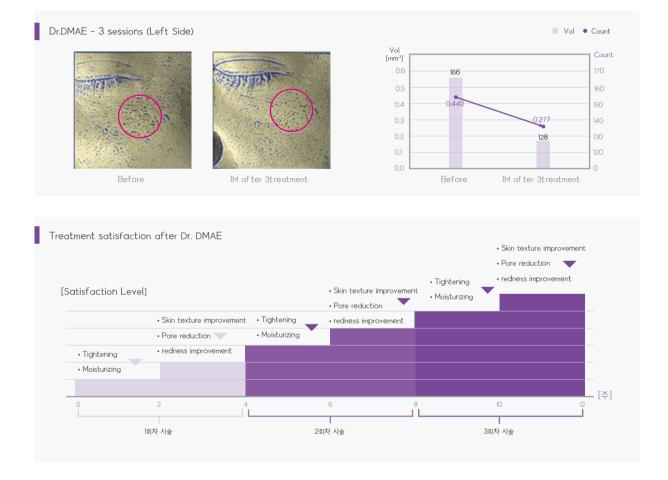




P DΓ. DMAΣ SOLUTION ESSENCE



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.



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.



DMAE (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

PDRN (Polydeoxyribonucleotide)²⁰

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

HA(Hyaluronic Acid)³

- Natural moisurizing factor contained in the human body, Main component of extracellular matrix (ECM)
- · Excellent water holding capacity, moisturizing and soothing effect
- \cdot 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

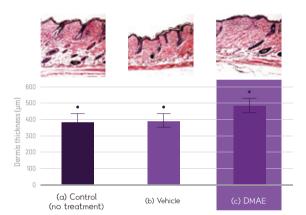
DMAE Academic reports

1. Clinical application

- ① 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 membrance stabilization. In addition, it slows down the aaging 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. Tadini (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 volume²⁰

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 ^[7]

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 ski	n					p<0.088

a) Values of ps0.05 appear in bold and indicate statistically significant differences in the DMAE group compared with the palcebo group; values of p>0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with placebo group; values of ps0.05 but <0.1 indicate trends in improvement with DMAE facial gel application compared with ps0.05 but <0.1 indicate trends in improvement with ps0.05 but <0.1 indicate trends in improvem

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

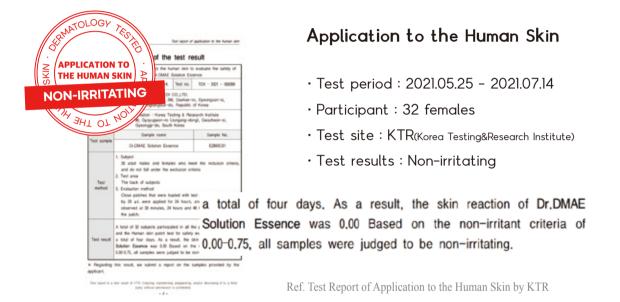
³⁾ Ref. G. Morissette, L. Germain (2007). The antiwrinkle effect of topical concentrated 2-dimethylaminoethanol involves a vacuolar cytopathology. Br J Dermatol;156(3):433-9.

Ensuring Quality

Dermatology Tested

This is a test of application to the human skin to evaluate the safety of Dr.DMAE Solution Essence Purple in a total of 32 subjects. It was judged that

Dr.DMAE Solution Essence Purple fell under "the category of non-irritating."



Type of Conducted Test	Results	Test Report Date	Test Site	
Limit Test for Heavy Metals	Not Detected	2021.07.23	KTR	
Allergy Screening Test	Allergy Free	2021.07.23		

Dr.DMAE Purple Effects







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
How to use	- Take an appropriate amount of this product and apply it gently on the face.
Storage	Keep it stored in room temperature(1~30°C) and out of direct sunlight
Package	1 Box: 3.5mLX 5vials
Precautions	 Don't apply it in the infected wounds (wounds that turn red, have a greasy, feverish or edema) If you have rash, fever, allergic reaction or infection symptoms while using this product, do not use it and consult a specialist In case of hypersensitivity to the products ingredients, please us it under the direction of a doctor.





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