



Anti-aging peptide and ascorbic acid derivative

Product name	PROLIPHIL-C ₃
INCI name	3-Ascorbyl Carbonyl Dipeptide-17
Korean name	3-아스코빌카보닐다이펩타이드-17
CAS No.	1570300-22-9
EFFECTS	<ol style="list-style-type: none"> 1. Fibroblast proliferation 2. Collagen biosynthesis promotion 3. Prolidase enzyme activity promotion 4. Melanin synthesis inhibition / skin whitening

Skin Permeation Peptide and Ascorbic Acid Derivative PROLIPHIL-C₃

PROLIPHIL-C₃ collagen is a multi-functional peptide and ascorbic acid derivative having skin whitening and collagen synthesis efficacy. It has excellent collagen antioxidant and skin whitening activity, but it is easily decomposed by light and heat. It is a new material that overcomes the limitations of ascorbic acid (vitamin C) stability and skin permeation by combining ascorbic acid (vitamin C) that is unable to permeate the skin due to hydrophilic structure with skin penetrability peptide.

Ascorbic acid (Vitamin C) stabilized within the structure of PROLIPHIL-C₃ is evenly penetrated into the skin, so it helps skin whitening and wrinkle improvement by protecting the skin from oxidative damage and inhibiting the synthesis of melanin.

Evidence Report

© *in vitro* tests

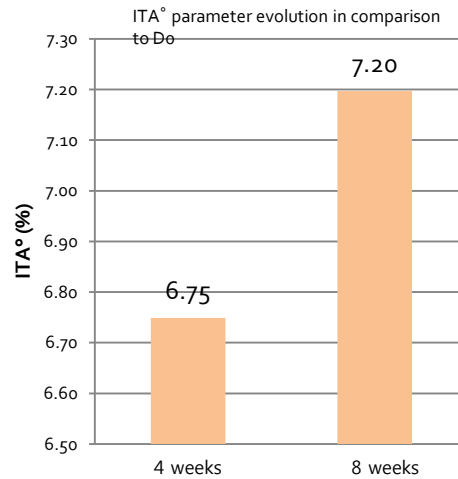
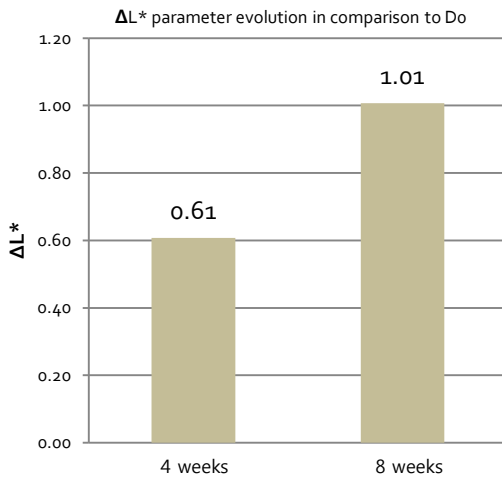
EFFICACY TEST 1: Stability (Improvement the stability of ascorbic acid)

EFFICACY TEST 2 : Anti-ageing (Inhibition of MMP-1, degrading enzyme of collagen)

EFFICACY TEST 3: Whitening (Inhibition of melanin/tyrosinase activity)

© Clinical test

EFFICACY TEST 4: Clinical study (Whitening)

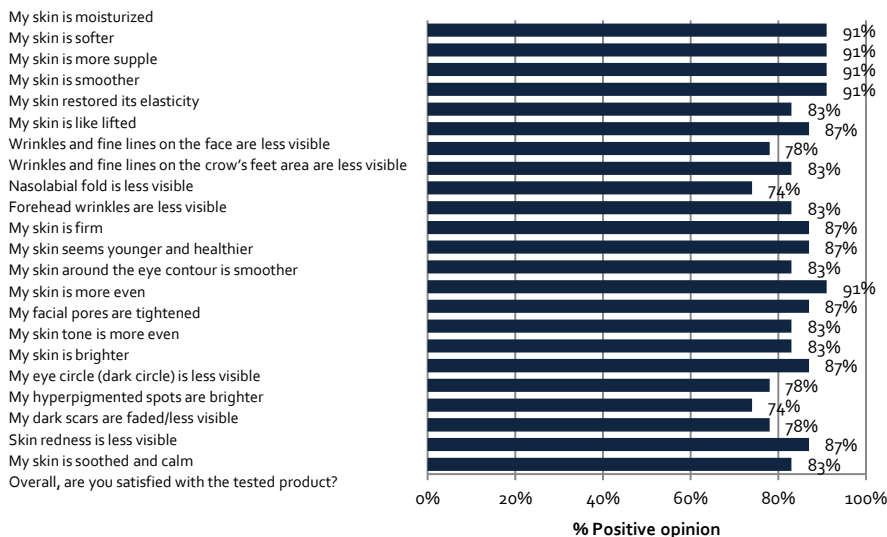


Whitening Efficacy of PROLIPHIL-C3 on Asian Skin Type

In a clinical study with 20 Asian healthy female volunteers (Bangkok), aged 44 to 61, 0.005 % formula containing PROLIPHIL-C3 had been applied twice daily during 8 weeks on the face area. Evaluation was performed by Chromametry (evaluation of whitening effect) and digital photography.

PROLIPHIL-C3 showed visible skin brightening effect even after 4 weeks *in vivo*.

EFFICACY TEST 5: Clinical study (Self-assessment)



Self assessment

Volunteers agree that PROLIPHIL-C3 makes improvement the skin