

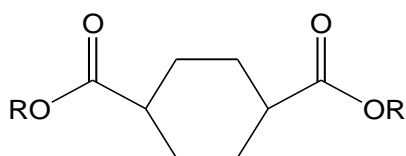
Amphiphilic Ester

Neosolue™-Aqulio

Features & Functions

- ✓ Enhances the **penetration of water-soluble active ingredients into hair & skin.**
- ✓ Repairs hair damage by enhancing the **penetration of water-soluble active ingredients** like water-soluble hydrolyzed keratin into hair.
- ✓ **Easily removes waterproof mascara** formulated with film-forming resin when used in cleansing oil.
- ✓ Has **excellent affinity with skin** and **enhances skin moisture.**
- ✓ Reduces stickiness & greasiness of polyols or oils.
- ✓ Provides **skin moisture without stickiness and greasiness.**
- ✓ Is **polyols alternative.**
- ✓ Has no skin irritation and allergic contact dermatitis in human RIPT (Repeated Insult Patch Test).

Product Name	INCI Name	IECIC 2014
Neosolue™ Aqulio	BIS-ETHOXYDIGLYCOL CYCLOHEXANE 1,4-DICARBOXYLATE	双-二乙氧基二甘醇环己烷1,4-二羧酸酯



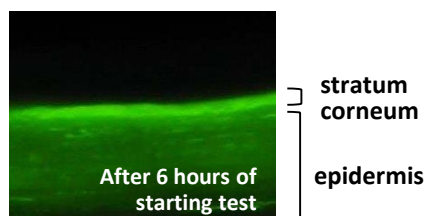
•R = Ethoxydiglycol residue

Skin Penetration Enhancing Effects of Neosolue™-Aqulio (Part1)

Enhances penetration of water-soluble active ingredients (whitening agents & moisture agents) into skin.

<Results of Skin Penetration Test: Photos of Epidermal Model (cross section)>

With Neosolue™-Aqulio



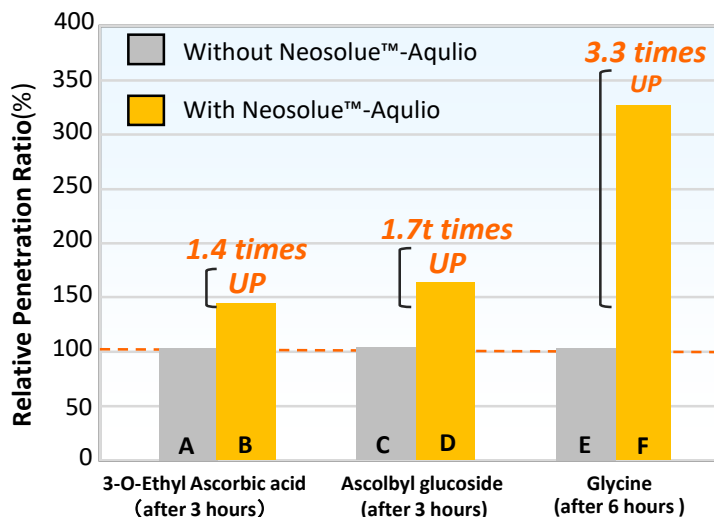
Without Neosolue™-Aqulio(Control)



Skin Penetration Enhancing Effects of Neosolue™-Aqulio (Part2)

Enhances the penetration of water-soluble ingredients (ascorbic acid derivatives and amino acids etc.) into skin.

<Results of Penetration Enhancement>



<Test Solution>

- A: Solution of 1% 3-O-Ethyl ascorbic acid
- B: Solution of 1% 3-O-Ethyl ascorbic acid with 2% Neosolue™-Aqulio
- C: Solution of 1% Ascolbyl glucoside
- D: Solution of 1% Ascolbyl glucoside with 2% Neosolue™-Aqulio
- E: Solution of 1% Glycine
- F: Solution of 1% Glycine with 2% Neosolue™-Aqulio

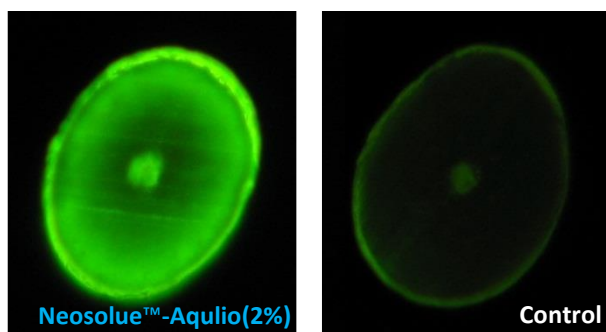
Hair Penetration Enhancing Effects of Neosolue™-Aqulio

- Enhances the penetration of active ingredients into hair.

The tensile strength of damaged hair recovers close to healthy hair by treating water-soluble proteins together with Neosolue™-Aqulio.

- Is useful for neutral hair coloring.

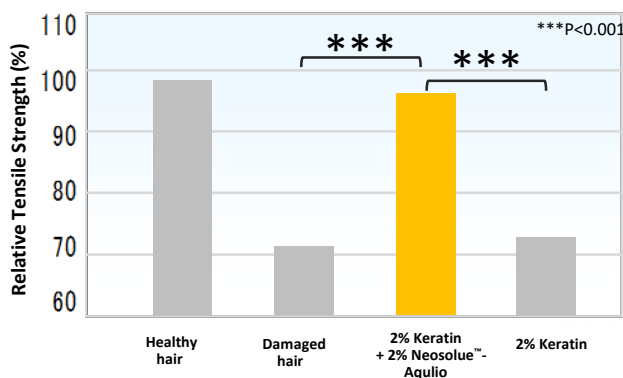
<Hair Penetration Enhancing Effects>



<Test Solution>

- : Solution of 0.1% Fluorescein Sodium (Control)
- : Solution of 0.1% Fluorescein Sodium with 2% Neosolue™-Aqulio

<Recovery Effects of the Tensile Strength>



<Test Solution>

- : Solution of 2% Keratin (Control)
- : Solution of 2% Keratin with 2% Neosolue™-Aqulio

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 * All statements, technical information and recommendations related to our products are based on information that is reliable, however the accuracy or completeness is not guaranteed.
 * Neosolue™ is a product trade name of NIPPON FINE CHEMICAL CO., LTD.



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 日本精化

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