

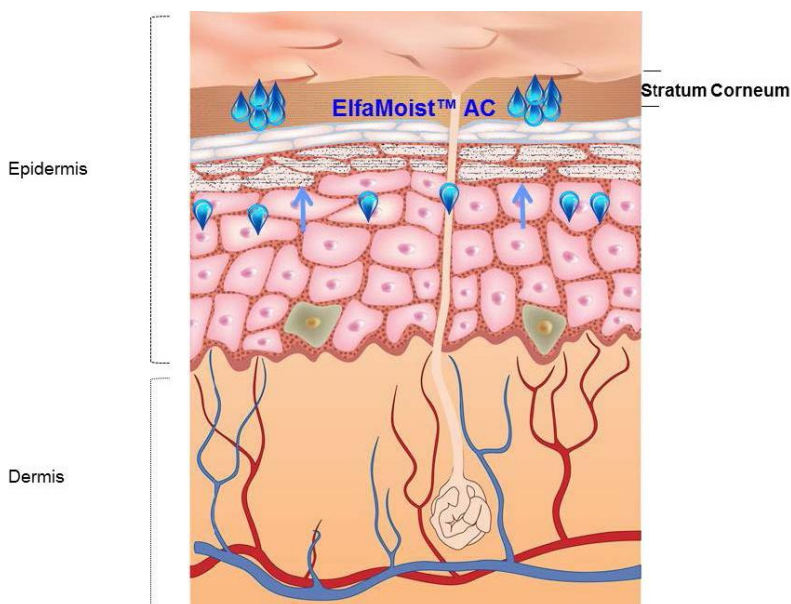
News release

June 1st, 2026

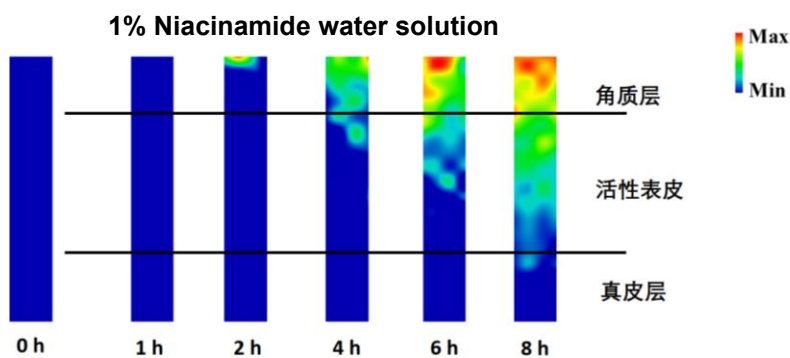
The Effect of ElfaMoist® AC Humectant on Enhancing Niacinamide Skin Penetration

Rigorous analysis by Nouryon has demonstrated that its moisturizing agent, **ElfaMoist® AC Humectant** (INCI name: Acetamidoethoxyethanol), enhances the skin penetration of niacinamide. Using Raman spectroscopy, Nouryon compared the skin penetration of niacinamide alone with that of a formulation combining niacinamide and **ElfaMoist® AC Humectant**. The results showed that the combination significantly improved the penetration of niacinamide into the skin.

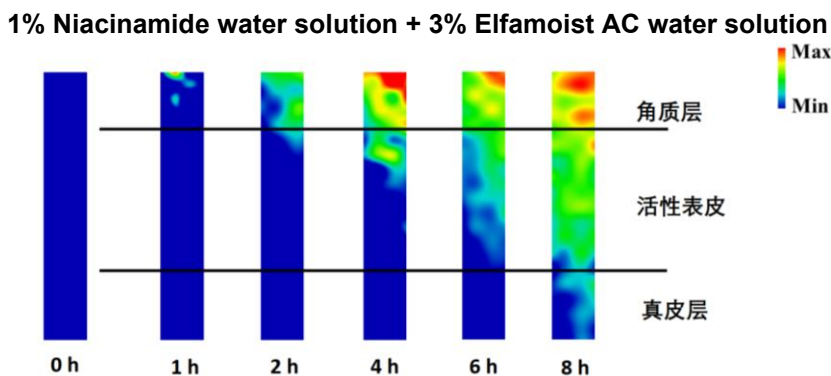
Designed by Nouryon scientists, **ElfaMoist® AC Humectant** interacts with water and keratin (skin protein) to keep the water molecules tightly bound in the stratum corneum. This binding mechanism ensures that **ElfaMoist® AC Humectant** continues to improve hydration for more than 30 hours after application. Given its ability to penetrate the stratum corneum, Nouryon investigated its effect on enhancing niacinamide penetration—and this penetration-boosting effect has now been observed.



Test samples consisted of 1% niacinamide and a combination of 1% niacinamide with 3% **ElfaMoist® AC Humectant**. These samples were applied to the forearm at 5 mg/cm², and their penetration profiles were evaluated at the initial point and after predetermined time intervals using Raman spectroscopy (instrument: LabRAM Odyssey high-speed, high-resolution confocal Raman spectrometer, HORIBA). The results showed that the system containing **ElfaMoist® AC Humectant** enhanced the penetration of niacinamide compared with niacinamide alone.



Relative permeability %	1h	2h	4h	6h	8h
No Elfamoist AC	0	0.86	3.02	5.71	7.92



Relative permeability %	1h	2h	4h	6h	8h
3% Elfamoist AC	0.23	2.46	5.93	7.11	10.28

Product name	ElfaMoist® AC Humectant
INCI Name	Acetamidoethoxyethanol
Japanese INCI name	アセタミドエトキシエタノール
Chinese INCI name	-
Quasi-drug ingredient name	-

Contact

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