

IACTIVE ECTOIN

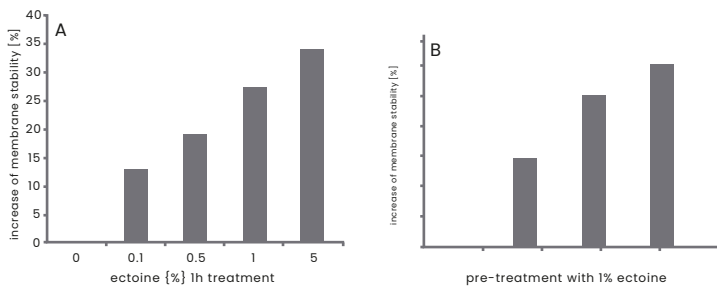
NATURAL ANTI-STRESS MOLECULE PRODUCED IN EXTREMOPHILIC MICROORGANISMS TO PROTECT AGAINST EXPOSOME (ALLERGENS, HEAT, POLLUTANTS, UV...), LOW NUTRIENTS CONDITIONS OR HIGH SALT MEDIA CONTENT.

- Enhances barrier function
- Exposome protection
- Wrinkle improvement
- UV protection/Sun care
- Anti-inflammatory and anti-irritant

The protective properties of ectoine, formerly described for only extremophilic microorganisms, can be transferred to human skin. It protects the cellular membrane from damage caused by surfactants and other external agents. Transepidermal water loss measurements in vivo suggest that the barrier function of the skin is strengthened after the topical application. Moreover, the particular electrostatic potential of ectoine as an amphoteric molecule provides this molecule with with affinity to water. This property is useful in preventing water loss and in recovering skin viability and preventing skin aging.

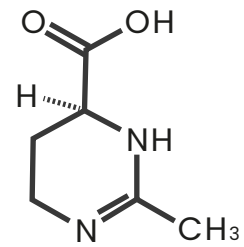
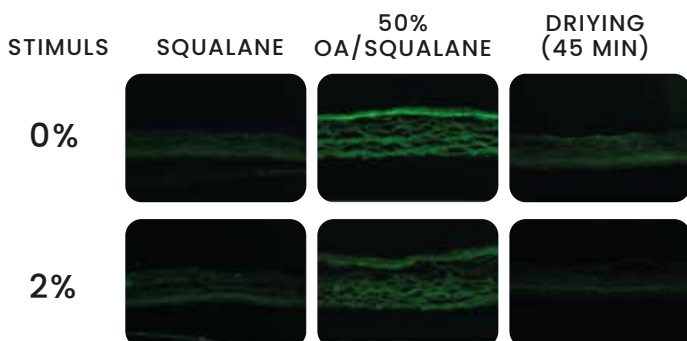
ANTI-STRESS AFTER SLS INDUCTION

Evaluation of the membrane-stabilizing effect of ectoine in surfactant-stressed cells.



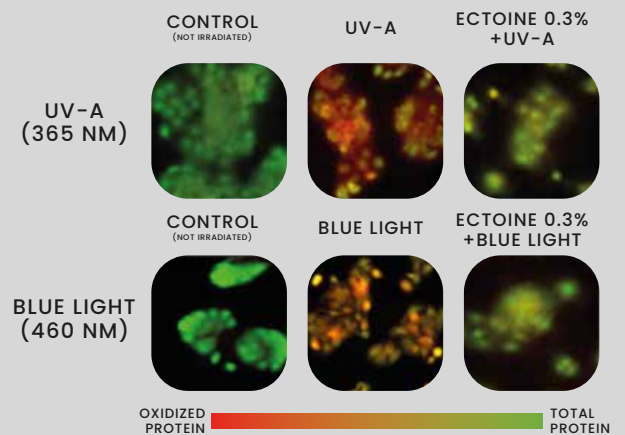
Clinics in Dermatology 26(4):3526-33 (July 2008)

EFFECT OF ECTOINE ON PROTEIN CARBONYLATION IN OA TREATED OR LOW HUMIDIT



ECTOIN PROTECTION AGAINST UV AND BLUE LIGHT

Fluorescence staining of UV-A and blue light treated HaCAT cells.



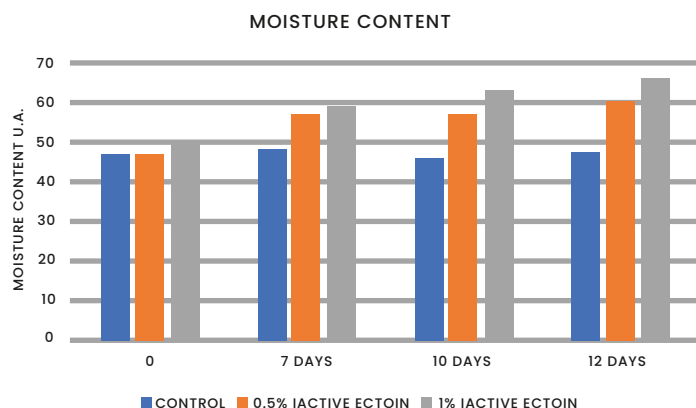
IFSCC MAGAZINE, 2001;4:1-6

HYDRATION TEST-LONG LASTING EFFECT



Application

Sun care formulas.
Night/Day Creams, Serums
Toners, essences
Soothing and calming
emulsions
Gentle cleansers
Sensitive skin products



Formulation instructions

Typically used at a level of 0.3 – 2 %.
Add at the end of the formulation during
cooling down process.

Technical Data

INCI Name US	Ectoin
INCI Name EU	Ectoin
Appearance	Crystal or powder
Color	White
PH	4.0 – 8.0
Assay	>98%
Solubility	Water soluble



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