

Patent N° FR 0210810



Diacetyl boldine

Function: Skin lightening

Definition:

Diacetyl Boldine (DAB) In C8 C10 triglycerides

Properties:

Diacetyl Boldine (DAB) works via α-adrenergic antagonist receptors and calcium flow regulation

Point of interest:

Tyrosinase is not directly inhibited by competition, tyrosinase is stabilised in its inactive form

INCI name:

Caprylic/Capric Triglyceride - Diacetyl Boldine

Applications:

Emulsions, soaps, make-up products with lightening or whitening properties

Formulation: Oil soluble

Recommended use level: 4%





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0 N	INF	LUENCING	
THE	ME	CHANISM	
OF	MEL	ANOGENESIS	









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CLAIM SUBSTANTIATION



Melanin index

Variation (D56-D0)

Colorimetric test

Study on 20 Asian volunteers.

Twice daily application of a cream containing 4% Lumiskin™ (40 ppm DAB) for 2 months.

Measurement of **ITA**° (clarity) by chromameter and **Melanin Index** by mexameter on one homogeneous area (two sites), one hyperpigmented area and one untreated zone (chin)

Self-Evaluation

Lightening of the skin	+ 71%
Lessening of the hyperpigmented areas	+ 54%
Complexion more even	+ 65%
Skin more radiant	+ 74%

In vivo tests on age spots

Colorimetric test

Test on 22 caucasian volunteers aged 58 +/- 7.8.

Twice daily application of a cream containing 4% Lumiskin[™] (40 ppm DAB) for 2 months (between October and December) on one hand versus the other hand.

Measurement of **Melanin Index** by mexameter on 4 sites.

Melanin index	Treated hand	Control hand
Variation (D56-D0)	- 40	- 25
	23.4%*	
* significant/Control : P<0,05		

Volunteers with improvement85%90%50%ITA° (clarity)zonesNormalHyper-
pigmentationControlVariation (D56-D0)+2°(3)+2.9°(2)+1.2°(ns)Maximum variation+11.2°+9.6°nsVolunteers with improvement65%80%50%

Normal

-17(1)

zones

Hyperpigmentation

-20(1)

Control

-6(ns)

ns

(1) highly significant/D0: p<0.01;
(2) significant/D0: p<0.01;
(3) significant/D0: p<0.05;
ns: non significant

In vivo

