MSH WHITE[™]

In low doses, MSH WHITE™, doubles the

lightening action of ascorbyl glucoside

D84

· D-Squame (D84/D0): decrease of melanic pigments located in corneocytes

• D-Squame (D84/D0)[•] decrease of melanic

(0.2%)+

+ 0.35**^(a)

****Protocol 2**: Study conducted on 60 Asian volunteers/ application on the face, 2 times per day for 84 days, using the EU07205 formula (placebo / 2% ascorbyl glucoside /

2% ascorbyl glucoside + 0.2% MSH WHITE™)

pigments located in corneocytes

After 2 months, MSH WHITE™ significantly boosts the ascorbyl

ascorbyl glucoside (2%)

L* (skin luminosity):

· Ascorbyl glucoside (2%) L*: +0.21 (not significant (b)

**p < 0.01 (a) significant esult/placebo (b) non-significant esult/placebo

NEW

-7%

NEW

■ MSH WHITE™ (0.2%)+ Ascorbyl glucoside (2%)

Macrophotographs

Ascorbyl glucoside (2%)

Macrophotographs

Protocol 2"

glucoside action

Protocol 2"

· MSH WHITE™

D0



α-MSH antagonist

- Tyrosinase inhibition
- Youth revealing complex

100% lighter age spots^{*}

73% fewer age spots*

83%

more radiant complexion*

100%

more even toned complexion*



Strong lightening action of MSH WHITE™ at 2% for a uniform complexion

- · Lighter areas of hyperpigmentation Clinical evaluation at 2 and 3 months: > **80%** of volunteers
- · Skin significantly lightened 66% of volunteers Melanin index of pigmented areas:

-3 (D56/D0) 4** (D84/D0)

· D-Squame: decrease of melanic pigments located in corneocytes



Protocol 1

After 2 months, MSH WHITE™ at 2% significantly **increases** the luminosity of the complexion (L*) for 73% of volunteers

Protocol 1'

* Protocol 1: Study conducted on 30 Asian volunteers/application on the face, 2 times per day for 84 days, using the 6911 formula (2% MSH WHITE™)

*p < 0.05 ** p < 0.01

Super-fast action: in 7 days, MSH WHITE™ is the only active ingredient presenting lightening activity & visible radiance of the complexion

	MSH WHITE™	Arbutin	Kojic acid	Hydroquinone
• Lightening action (amount of melanin/control)	-24%	-24%	-33%	-9%
 Illuminating action on the complexion (L* variation/control) 	+9%	-1%	0	-2%

Protocol : topical application of active ingredients in formula on reconstructed epidermis of phototype IV MSH WHITE™ or arbutin or kojic acid: 2% - hydroquinone: 0.1%

ID card

- INCI Name: undecylenoyl phenylalanine
- Pure active ingredient (white powder)
- Lipoaminoacid: vectorized essential amino acid
- Amphiphilic Structure: excellent cutaneous bio-affini
- Can be formulated in all kinds of products **Dose:** from 0.2% (in combination) to 2% (alone)
- Non-phototoxic
 - (for use in sunscreen)
 - Preservative-free
 - ECOCERT
 - Biodegradable



A UNIQUE MODE OF ACTION: tyrosinase metabolic inhibition Inhibits key steps in the α -MSH induced **melanogenic cascade**







culture*

*5 days



Superior activity versus benchmark lightening agents



Nota:

The analytical specifications warranted are only those mentioned on the certificate of analysis supplied with each delivery of the product. Except as set forth above, we makes no warranties, whether express, implied or statutory, as to the product which is the subject of this document. Without limiting the generality of the foregoing, we makes no warranty of merchantability of the product or of the fitness of the product for any particular purpose. Buyer assumes all risk and liability resulting from the use or sale of the product, whether singly or in combination with other goods. The information set forth herein is furnished free of charge and is based on technical data that we believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we makes no warranties, express or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.