

cosmelan®



depigmenting solution
by mesoestetic®



trust the leader

the world's leading professional
depigmentation method

mesoestetic®

Proven efficacy

Efficacy tests support its results in any skin phototype (I-VI) and in all ethnicities

High satisfaction

Excellent **long-term results and high satisfaction** for patients

International presence

Distributed on **5 continents**¹

Satisfied professionals

Thousands of professionals already use **cosmelan** and recommend it to their patients

+ 500,000 patients

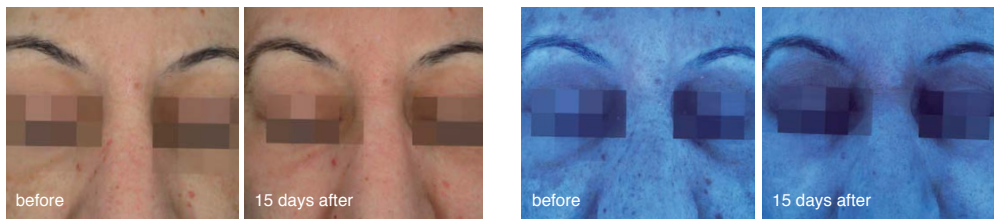
More than 500,000 patients treated worldwide¹

Results of the cosmelan[®] method

The efficacy of **cosmelan** method has been demonstrated in specific *in vitro* and *in vivo* studies under medical supervision.

In vivo results: phototypes IV - VI

Age: 44 · Type of spot: melasma and solar lentigo



The efficacy of **cosmelan** method has been demonstrated in specific *in vitro* and *in vivo* studies under medical supervision.

In vivo results: phototypes IV - VI

Age: 25 · Type of spot: post acne PIH**

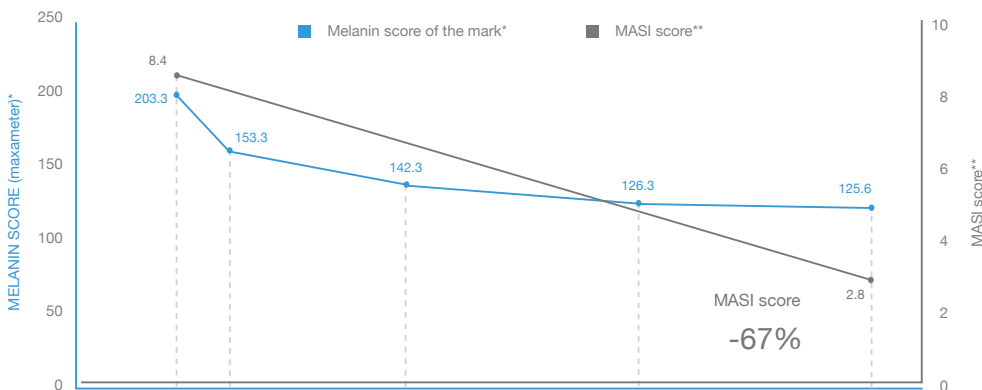
Age: 41 · Type of spot: PIH**

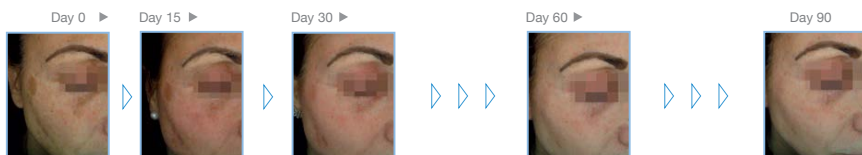


* Images courtesy of Dr Reddy. ** Images courtesy of Dr Danmallam.

Measurement of *in vivo* results

In *in vivo* studies, pigment reduction in the spot was measured during treatment with the **cosmelan** method:





* **Melanin index:** measured with MPA580 mexameter probe (Courage Khazaka electronic GmbH). Melanin measurement in hyperpigmented area.

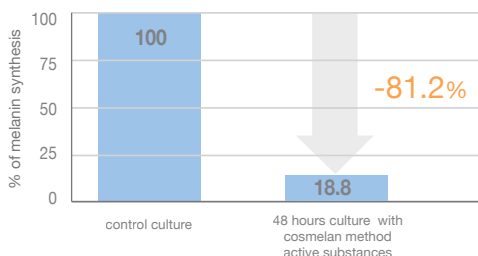
** **MASI:** (MASI score: Melasma Area and Severity Index) is an specific a measuring system to evaluate melasma severity. It consists of assessing four specific areas: forehead, malar (cheekbone) (left and right) and chin. A subjective score is assigned to determine the melasma severity. These assessments were always made by same professional.

Results of *in vitro* studies

The capacity of the active substances in the **cosmelan** method to inhibit melanin production was assessed *in vitro* in melanocyte cultures.

-81% of melanin synthesis at 48 hours:

An 81% reduction in melanin levels in a melanocyte culture, and thus effective inhibition of melanin synthesis was observed after 48 hours of exposure to the active substances in the **cosmelan** method.



control culture



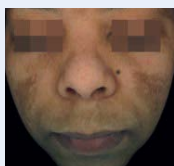
48 hours culture with cosmelan method active substances

Biotechnology Unit. *In vitro* spectrophotometric study of melanin synthesis. mesoestetic Pharma Group, S.L. 2014.

Biotechnology Unit. *In vitro* study of melanin synthesis using Fontana-Masson staining. mesoestetic Pharma Group, S.L. 2014.

Types of hyperpigmentation and their diagnosis¹⁻²

melasma



PIH

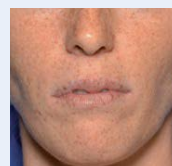
(Postinflammatory hyperpigmentation)



solar lentigo senile lentigo



ephelides (freckles)



Aetiology



Genetic tendency



Inflammation



Photosensitizing medication



Ageing



Sun exposure



Hormonal changes



Exposure to chemicals

The cosmelan method: the formula, how does it work?

cosmelan contains an exclusive combination of active substances with proven efficacy, which act on all **phases of the hyperpigmentation process** totally eliminating existing hyperpigmentation, preventing its reappearance and also stopping the appearance of new dark spots. An all-round, effective result.

SKIN PIGMENTATION PROCESS



MECHANISM OF ACTION

4

The **melanin** formed builds up in the stratum corneum and becomes darker when stimulated by direct light, making the spot more visible and intense on the surface of the skin.

cosmelan acts on the stratum corneum, **intensively combating the accumulation of melanin**.

CORRECTIVE ACTION

3

During the epidermal renewal process, **keratinocytes** loaded with melanin rise up to the skin surface **increasing its concentration**.

cosmelan acts by **reducing the amount of melanin formed**, reducing the intensity of the spot.

2

Melanosomes with melanin inside move along the melanocyte dendrites until they **transfer to the epidermal keratinocytes**.

cosmelan act by **stopping the melanosome from transferring to the keratinocytes**, preventing the pigment from reaching the top layers of the skin.

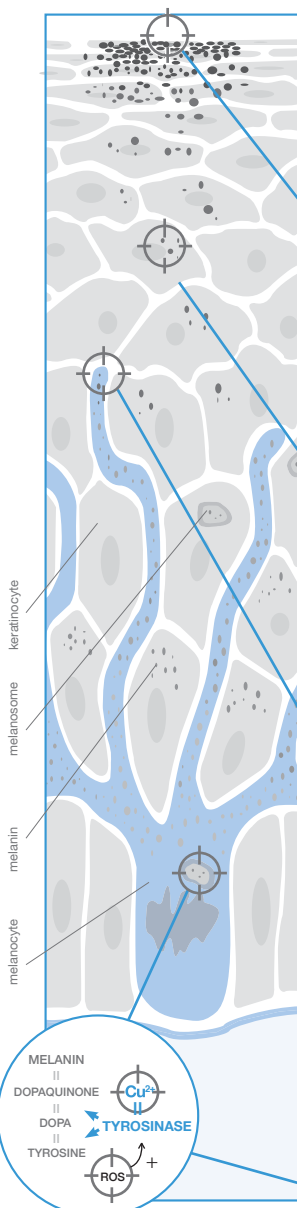
REGULATING ACTION

1

During the melanogenic process, **tyrosinase requires copper ions** (Cu^{2+}) for activation. Once active, inside the melanosome, it oxidises tyrosine, transforming it to DOPA (dihydroxyphenylalanine) which in turn oxidises to dihydroxyindole and finally is converted to melanin. Tyrosinase activity is increased by **numerous factors that cause over stimulation** of melanogenesis.

cosmelan has a dual effect:

- 1) **It reduces the function of tyrosinase**, because it contains copper chelating agents (Cu^{2+})
- 2) **It inhibits tyrosinase activation** within the melanosome, lowering oxidative stress and reducing melanin synthesis.



The cosmelan method products

The cosmelan method involves a professional salon treatment phase followed by a home treatment phase:

The synergic action of the method's products ensures greater depigmenting efficacy, greater comfort during treatment, and less risk of repigmentation. Completing the treatment affords more potent and lasting results.

In clinic treatment



cosmelan mask 10 g

the mask works effectively on existing melanin, degrading and eliminating dark spots while inhibiting the melanin formation process. This prevents recurrence and the appearance of new spots.

Instructions for use: Apply a thick layer of mask to clean skin and let it work for the length of time established under professional criteria. Avoid the eye contour area.



Depigmenting
power



Regulating
power

mesoestetic recommends:

- The mask application time depends on the skin phototype, sensitivity and the condition of the skin to treat. This is determined by the professional.
- The intensity of the treatment depends on the thickness of the layer of product applied. For optimal efficacy, we recommend applying all the product, 10g.
- Apply the mask evenly and all over the face, not just to hyperpigmented areas.
- Keep the mask moist while in place to prevent cracking. Use a water spray to do this, without removing the product.

Application times of the mask:

	dry skin	normal/ combination skin	oily skin
Phototypes I and II	8 hours	8 hours	10 hours
Phototypes III and IV	8 hours	10 hours	12 hours
Phototypes V and VI	8 hours	8 hours	10 hours

mesoestetic's recommended application times for guidance purposes only.



Once the mask has been applied the patient can go home. During the application time and after removing the mask, the patient must avoid exposure to sources of light and heat.

After the time prescribed by the professional is over, the patient must remove the mask at home, carefully cleansing the application area with plenty of lukewarm water. Never exceed the recommended application time.

At home



5-7 days after removing the mask, the method continues at home. The patient must follow the instructions for use to ensure the desired result.

cosmelan maintenance cream 30 g

The **maintenance cream** boasts the depigmenting result of the mask, keeping the production of new melanin under control, preventing the reappearance of the dark spots treated and controlling the appearance of new spots

Instructions for use: apply **maintenance cream** on clean, dry skin, massaging in gently.



Depigmenting
power



Regulating
power

mesoestetic recommends:

- **Completing the treatment regimen. Abandoning the treatment** can result in the reappearance of existing spots or the appearance of new spots, and the duration of the desired effects cannot be guaranteed.
- Patients often describe a **sensation of heat and stinging**. This is to be expected and is a sign that the method is working. This can be relieved by applying cool air to the face.

melan recovery 50 ml

Soothing and restorative balm for sensitive, reddened skin.

Combats the reactive signs of inflammation, reddening or irritation, affording a sensation of instant relief. Reduces skin sensitivity and strengthens the skin defences. Restores skin barrier balance, providing comfort, elasticity and smooth skin.

Instructions for use: Apply evenly to the skin and massage until completely absorbed; always apply after maintenance cream.



Soothing
action



Regulating
power

mesoestetic recommends:

- During treatment, it is normal for the skin to feel much drier, with tightness and scaling.
- Applying **melan recovery** lessens such effects and restores skin comfort. Apply as often necessary.

melan 130+ pigment control 50 ml

Very high sun protection that helps to control skin pigmentation

With mesoprotech complex, which affords tested protection against UVB (131) and UVA (67) exposure, with a biological anti-oxidant action.

Its formula contains depigmentation ingredient that helps regulate melanin synthesis, reinforcing the anti-spot preventive action on a daily basis.

The texture affords a natural tone that attenuates imperfections, unifying the skin tone.

Instructions for use: apply after melan recovery during the daytime and repeat application in the event of direct exposure.



Protective
action



Regulating
power

mesoestetic recommends:








- Throughout the treatment, effective and constant solar protection is required using melan 130+ pigment control. Failure to use solar protection reduces or invalidates the efficacy of the treatment.

The cosmelan method protocol

4 - 6 weeks

Prep phase: 4- 6 weeks prior treatment


Use **hydracream fusion**, **hydratronic mist**, **melan 130+ pigment control** in the day and **brightening peel booster** at night. 48 hours prior to mask application a mesopeel melanostop tran3x is recommended.




8 - 12h

Phase 1: corrective phase (clinic treatment)

Deep cleanse with oil removing solution, followed by the application of the cosmelan mask. The product must be applied by a professional who will decide on the application time for each case. After the recommended application time, the patient must remove the product at home to complete the first phase.




STEP 1: preparation
oil removing solution
Instructions for use:
apply to clean, dry skin with a gauze.



STEP 2: mask
Instructions for use: apply the 10g of mask and leave it as instructed by the professional for between 8-12 hours according to the guidelines in the table on the right.


	dry skin	normal/combination skin	oily skin
Phototypes I and II	8 hrs.	8 hrs.	10 hrs.
Phototypes III and IV	8 hrs.	10 hrs.	12 hrs.
Phototypes V and VI	8 hrs.	8 hrs.	10 hrs.



STEP 3: facial mask removal

Instructions: rinse carefully with plenty of lukewarm water and repeat as required, avoiding direct contact with the eyes. In case of erythema, tightness or irritation, we recommend you apply anti-stress face mask, followed by melan recovery, and allow it to work for 10-15 mins.

5-7 days




STEP 4: post procedure phase

Instructions: Apply melan recovery regularly to moisturise and relieve redness and sensitivity. For excessive flaking apply fast skin repair, and for excessive inflammation apply anti stress face mask. For added moisture consider HA densimatrix. Complete with application of mesoprotech melan 130+.


month 1

Phase 2: continuous depigmentation


After the skin has recovered from the mask application (5-7 days), continue with daily depigmentation to ensure the corrective action of the method and to control melanin production inside the melanocyte. In case of externe sensitivity during this phase, consider reducing treatment frequency to 2 times a day (morning and night).



maintenance cream







melan recovery



melan 130+ pigment control

APPLICATION PROTOCOL month 1 after the salon treatment:




Instructions for use: apply **treatment 3** times a day (morning, midday and night), following with **melan recovery** and **melan 130+ pigment control** after daytime applications.


month 2 + 3

Phase 3: pigmentation regulation


At this point, it is important to treat the root cause, controlling melanin production through constant melanocyte control. This controls both intra and intercellular melanin availability and prevents repigmentation.



maintenance cream







melan recovery



melan 130+ pigment control

APPLICATION PROTOCOL month 2 + 3




Instructions for use: apply **maintenance cream** morning and night, followed by **melan recovery** and **melan 130+ pigment control** during the day. In case of continuous sun exposure, reapply UV protection at midday.


month 4 - 12

Phase 4: reappearance control


There is a constant risk of developing dark spots. During this control phase, the treatment prevents the reappearance of treated dark spots and the formation of new ones, for longer-lasting success. Once the method is complete, we strongly recommend continuous use of sun protection as a permanent cosmetic treatment.



maintenance cream







melan recovery





melan 130+ pigment control

APPLICATION PROTOCOL month 4 - 12



Instructions for use: apply **maintenance cream** followed by **melan recovery** at night. During the day, apply **melan 130+ pigment control**, and reapply in case of continuous sun exposure

 In salon  At home



mesoestetic Pharma Group

committed to research and development
of new dermocosmetic solutions since 1984.

For more information about mesoestetic and its products, visit:

www.mesoestetic.co.za



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NOTE: This skincare brochure serves as a summary of the product or treatment and does not cover all the necessary information. Please consult your skincare professional for more detailed information prior to treatment. Ensure that a full medical history and skin analysis is completed to rule out all contra-indications not listed here. Results may vary.