# Sider Access

## **Erasing STUBBORN SPOTS** and **DISCOLORATION** *from the root source*

SkinMTX Insider Access:

## *February 2024* **Edition**

Can't seem to get rid of stubborn spots? Chances are, before the existing ones can fade off, new ones start developing. Which is why it may seem like your spots and discolorations never seem to go away!

Fret not, we've developed the perfect spot-lightening range that fades existing spots, unifies skin tone, and prevents the formation of new spots! Read on for more info!



Alpha Spot Perfector The Source to Strengtwor Ya Ce 15 mb/0.5 FL.OZ

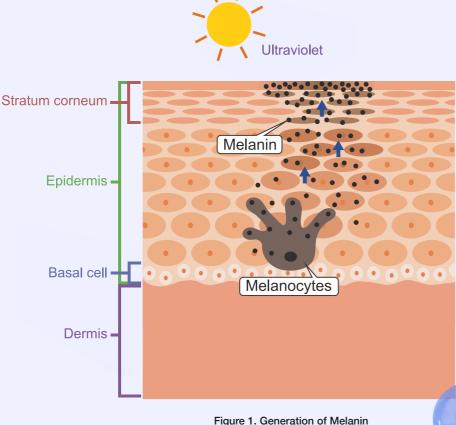


## Understanding the Causes of Pigmentation

Skin pigmentation is a complex biological process that involves the production and distribution of melanin.

Melanin is also the pigment responsible for the color of our skin, hair, and eyes. The brown coloration results from the pigments eumelanin and phaeomelanin, which are produced in special epidermal cells called melanocytes.

The enzyme tyrosinase, usually present in an inactive form, is formed in these melanocytes. UV light triggers the activation of melanogenesis, a complex series of enzymatic chemical reactions.



This leads to the formation of melanin, causing undesirable discolorations on the surface of the skin that typically manifest as age spots, melasma, or freckles.





Melasma

**Brown Spots** 

**Freckles** 

Figure 2. Types of Skin Pigmentation

### **Remedies:** Alpha Arbutin vs Hydroquinone vs Others

#### Alpha Arbutin vs Hydroguinone

Hydroquinone has long been considered the gold standard for the treatment of hyperpigmentation. However, there has been growing concerns about its side effects. It has been shown to cause chronic adverse effects<sup>1</sup>. These include exogenous ochronosis, cataract, pigmented colloid milia, sclera, and nail pigmentation, loss of elasticity of the skin, impaired wound healing, and exuding an offensive fish odour. Plus, Hydroquinone can also cause DNA damage. These adverse effects limit the usage of hydroquinone.

Alpha-Arbutin, on the other hand, gained attention and recognition for its skin-lightening potential. It is a derivative of hydroquinone that has been proven to have a superior lightening effect without the toxicity and irritations associated with hydroquinone<sup>2</sup>

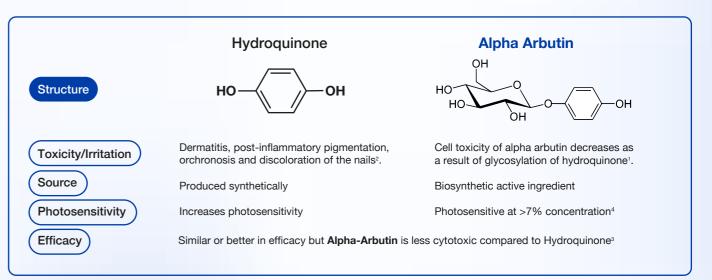


Table 1: Hydroquinone vs Alpha Arbutin

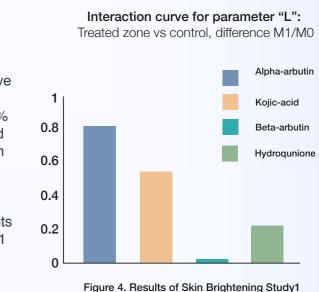
#### Comparison with other skin lightening active ingredients

To determine the skin-lightening effects of different active ingredients, an in-vivo study was carried out on 80 women. It demonstrated that an emulsion containing 1% Alpha-Arbutin resulted in a faster and more pronounced skin lightening effect after 1 month when compared with other commonly used single components at the same 1 % levels.

Figure 3 shows the classification of lightening ingredients according to the magnitude of their specific effect after 1 month (measured by chromametric studies).

**RESULTS:** Alpha-Arbutin gives a faster and more pronounced skin brightening effect after 1 month

Sarkar et al, 2013 J. Cutan. Aesthet. Surg.: Cosmeceuticals for Hyperpigmentation: What is Available? <sup>2</sup> Couteau et al. 2016 Cosmetics: Overview of Skin Whitening Agents: Drugs and Cosmetic Product



### SKINMTX AI PHA BANGE

Enhancing the benefits of Alpha Arbutin with synergistic combinations

SkinMTX<sup>®</sup>

TREAT

- minimize hyperpigmentation
- hydration

**SkinMTX** 

SkinMTX<sup>®</sup>

Cellagene-B<sup>T</sup>

- pigmentation



If you're looking for brighter, more unified skin tone with reduced spots, look no further! SkinMTX® has achieved amazing proven results by harnessing the brightening properties of Alpha Arbutin, and enhancing it with synergistic combinations of other active ingredients.

#### Alpha Arbutin: Mechanism of Action

Firstly, let's take a look and understand how Alpha Arbutin works. It blocks melanin production in 2 stages - by inhibiting enzymatic oxidation of Tyrosine and Dopa. In addition to higher efficacy, it also boasts a better safety profile compared to hydroguinone, and is more stable when compared to beta-arbutin. These characteristics make it the go-to active for lightening of complexion and minimization of dark spots on the skin.

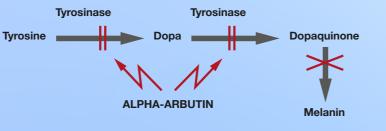


Figure 3. Alpha Arbutin Mechanism of Action

#### SkinMTX Alpha Range

Each product in our Alpha Range is curated to precisely target spots and discoloration. For effective results, we have combined Alpha Arbutin with other efficacious ingredients to provide amazing results.



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