



Experience  
the beauty  
of innovation.



Innovation in skin lightening technology.

# Improve the appearance of hyperpigmentation safely and effectively.

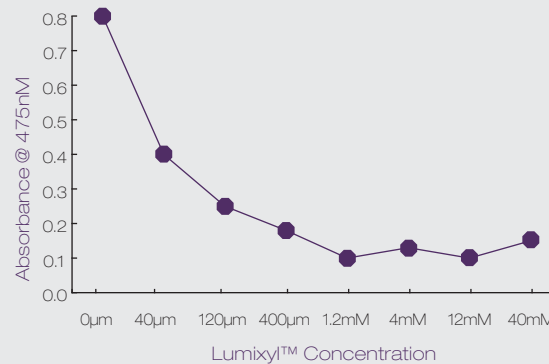
Introducing Lumixyl™, a non-toxic, non-irritating synthetic peptide proven to significantly improve the appearance of mild to moderate hyperpigmentation. Developed by Dr. Basil Hantash at the Leland Stanford Junior University, Lumixyl™ can be used to lighten dark spots or treat general discoloration. Consider this innovative technology when treating:

- Melasma
- Post-inflammatory hyperpigmentation
- Sun spots, age spots or liver spots
- Photodamage
- Hyperpigmentation caused by systemic disease or prescription drugs

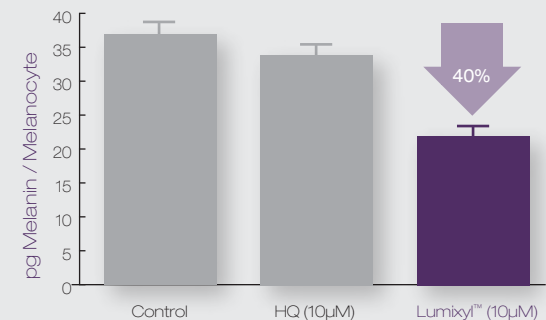


## Reduce the production of melanin by up to 40%.

Lumixyl™ works by inhibiting tyrosinase, the enzyme responsible for the production of melanin in the skin. In fact, studies\* show that Lumixyl™ inhibits tyrosinase at micromolar concentrations. A 10µM dose of Lumixyl™ reduces the intracellular production of melanin by as much as 40% compared to a 10µM dose of Hydroquinone™, which reduces production by only 7%.



Colorimetric detection of dopachrome, an intermediate involved in melanin production, in the absence/presence of Lumixyl™.



In vitro inhibition of intracellular melanin production (Melanin measured spectrophotometrically at  $\lambda = 475\text{nm}$ ).

In a study of volunteers using Lumixyl™ twice daily, participants reported a **40% improvement** in facial pigmentation after 9 weeks and a **50% improvement** after 16 weeks. The study group included five individuals with recalcitrant melasma, for whom previous treatments with the leading industry competitor\*, containing 4% Hydroquinone™, were unsuccessful.

\*Tri-Luma®

## Experience the advantages of Lumixyl™

	No known safety concerns	Non-irritating	Stable	Yields visible results with a concentration of 0.01%
Lumixyl™	✓	✓	✓	✓
Hydroquinone™	May cause ochronosis			Requires 4-20%
Alpha-Arbutin™				
Kojic Acid				
Bearberry Acid				
Glycolic Acid	May cause increased sensitivity to sunlight and post-inflammatory hyperpigmentation			Requires 50-92%
Alpha Hydroxy Acids			✓	
Niacinamide (Vitamin B3)	✓	✓	✓	Requires 2-5%
L-Ascorbic Acid (Vitamin C)	✓			Requires >5%

## Results without risk.

Repeated Insult Patch Tests confirm that, unlike alternative lightening products, Lumixyl™ does not elicit irritating allergic reactions. Furthermore, Lumixyl™:

- is non-toxic
- is water-soluble
- is easily degraded by the skin
- produces no harmful by-products
- has no cytotoxic effect



With an IC50 of 40µM, Lumixyl™ is 17 times more efficacious\* in the inhibition of tyrosinase than Hydroquinone™, long considered the gold standard in skin lightening.

\* Study on file – e med, Inc.





The newest skin lightening technology from  BASIS  
medical technologies inc.

[www.basismedtech.com](http://www.basismedtech.com)