



DERMA LAYR™

TECHNOLOGY INSIDE

DermaLayr Technology is a unique, bioactive delivery platform that rapidly and precisely delivers various active ingredients deep into the skin for benefits such as brightening, tightening, repair or hydration.

DermaLayr is a category-creating cosmetic 'active dry film' made of superfine bioactive nanofibers, a pioneering transdermal delivery system that can transform the efficacy of through-the-skin treatments.

With the best scientific minds and purest ingredients, NanoLayr has developed a bespoke functional delivery platform with DermaLayr. The proprietary technology means that only what is necessary for the skin is in the film, keeping the product pure and the ingredient list minimal.

Produced using our patented Sonic Electrospinning Technology™, DermaLayr is an ultra-thin non-woven web of bioactive nanofibers that are 100x smaller than a human skin pore. With patents granted in the US and NZ and patents pending across Australia, China, Korea, Japan, Europe and Hong Kong.

Products endorsed with the DermaLayr technology brand mark give reassurance on the quality, efficacy and trust that they will outperform other skincare creams, masks and serums that use bulk fillers and carriers.

Benefits

Highly Functional

- Verified by third party laboratories with clinically proven results.
- Revolutionising through-the-skin treatment to heal, repair and restore.

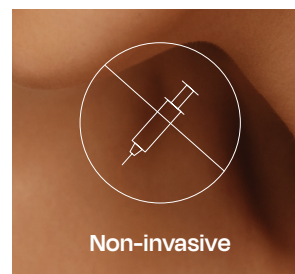
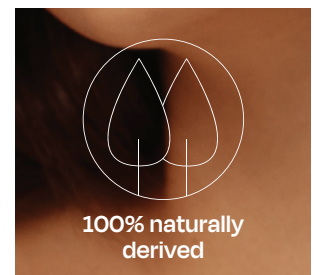
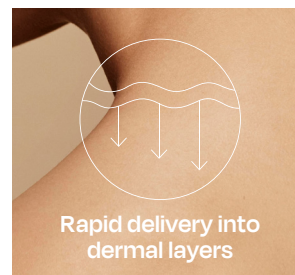
Pure

- Brings beneficial actives for targeted penetration deep into the skin's dermis, leading to unrivalled levels of efficacy.

Customizable

- Can be tailored with bespoke additives or choose from our formulation library.
- Suitable for difficult to formulate actives.

Features



When testing against serums, DermaLayr delivers actives up to

10 TIMES DEEPER
into the skin layers.

Against gels, DermaLayr is

150%
more effective in delivering actives to the skin.

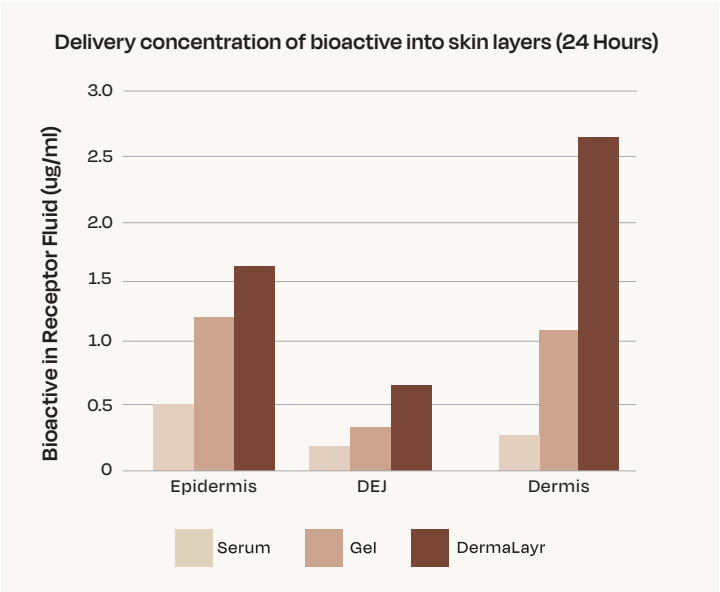


For more information
please visit dermalayr.com

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In-Vitro Efficacy

1. Delivery of bioactive into different skin thickness – Franz diffusion cell assay



Results: Compared with other delivery mechanisms, DermaLayr technology has been proven to rapidly deliver bioactive deep into the dermal layers of the skin.

2. Percutaneous Aabsorption — OECD 428

Hyaluronic Acid

Epidermis	
Label Name	% Increase vs Non-treated
Non-treated	0
DermaLayr™ Marine+ Tighten (Hyaluronic acid)	28.86
DermaLayr™ Marine+ Brighten (Vitamin C)	19.66
DermaLayr™ Marine+ Protect (Salicylic acid)	81.73

Marine Collagen

Dermis		Epidermis
Label Name	% Increase vs Non-treated	% Increase vs Non-treated
Non-treated	0	0
DermaLayr™ Marine+ Tighten (Hyaluronic acid)	19.50	20.63
DermaLayr™ Marine+ Brighten (Vitamin C)	20.17	5.38
DermaLayr™ Marine+ Protect (Salicylic acid)	16.75	25.11

Salicylic Acid


Label Name	% Penetration W.r.t Actual Concentration
Non-treated	0
DermaLayr™ Marine+ Protect SA (Salicylic acid)	91.30
DermaLayr™ Botanicals Protect SA (Salicylic acid)	96.69

Results:

- Marine collagen:** The penetration of marine collagen is seen in a significant quantity when compared to the NT (control). The availability in the tissue and the permeation media is a fraction of the original concentration. The efficacy in vivo was tested and will be discussed later in this presentation.
- Hyaluronic Acid, Sodium Salt (HA):** Our results shows a skin permeation of HA which passes through the functional stratum corneum of the skin model. HA is significantly present in the tissue indicating some amount of the HA was trapped in the epidermis.
- Salicylic Acid:** At these concentrations, both DermaLayr platforms show very high penetration in the supernatant.

In-Vivo Efficacy

Clinical Trial



Wrinkles
Reduced after 1 week by an average of
11.6%
Reduced after 2 weeks by an average of
12.2%

Lifting
Lifted by an average of
26.9%
after 1 use
Lifted by an average of
24.5%
after 2 weeks

Elasticity
Restoration of skin elasticity after 1 use of
76.1%

Appearance
Average improvement of skin appearance over 2 weeks of
18.9%

Clinical Efficacy: Soothing and redness reduction

