



ORGANIC
BIOACTIVES
NEW ZEALAND

CONSCIOUS BEAUTY WITHOUT COMPROMISE

TPT Xtraction®

TPT Xtraction® [tripartite extraction]

Innovative physical cell disruption technique

INNOVATION, RESEARCH AND DEVELOPMENT

Our proprietary, patent-pending *TPT Xtraction®* method is a result of eight years of comprehensive research and development. It implements an:

INNOVATIVE

THREE-LAYERED

COLD PROCESSED AND

CHEMICAL-FREE BIO-LIQUEFICATION APPROACH, USING ULTRA DISTILLED
WATER OR ORGANIC CARRIER OIL AS A SINGLE SOLVENT.

The main focus is to obtain the best possible **quality as well as quantity** of cosmeceutical bioactives derived from fresh, raw and **biodiverse New Zealand** land and marine botanicals.

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organicbioactives.com
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Introducing TPT Xtraction® Step by Step

STEP 1

The first step of our TPT Xtraction® technique involves the use of a combination of high pressure, heat, and saturated steam to efficiently kill pathogen microorganisms and improve our extraction yield and efficiency. This procedure makes biological actives more bioavailable, given the rigid, complex nature of the cell wall of many botanicals.

This **physical cell disruption technique**, that commences our extraction process, enhances the extractability of purer bioactive compounds and ensures the effective release of these compounds from the cell wall matrices.

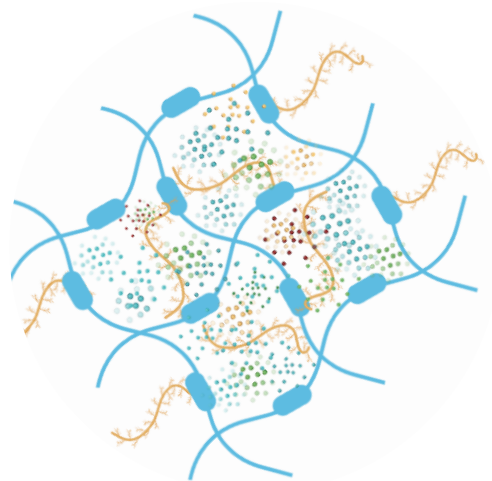







Fig 2. OceanDerMX® 3D - bioactive network

-  Red algae gel extract abundant with sGAGs
-  Mamaku-Black fern meristem's long chain polysaccharides
-  Polyphenols
-  Naturally occurring peptides
-  Beta-carotenes

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STEP 2

The second layer of our approach utilises green chemistry approved **UAE - [Ultrasound-assisted extraction]** to unlock further and release the remaining bioactives such as Polyphenols, Beta-carotenes, as well as other Antioxidants, Vitamins and entrapping them into our active "biopolymer fishnet."

This combined approach ensures efficient capturing and stabilising of the remaining and previously extracted bioactives.

To strengthen our **3D scaffold biopolymer framework**, we finalise the second layer of extraction by introducing **intriguingly unique** and **biodiverse biopolymers** from **Mamaku-Black fern meristems**.



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STEP 3

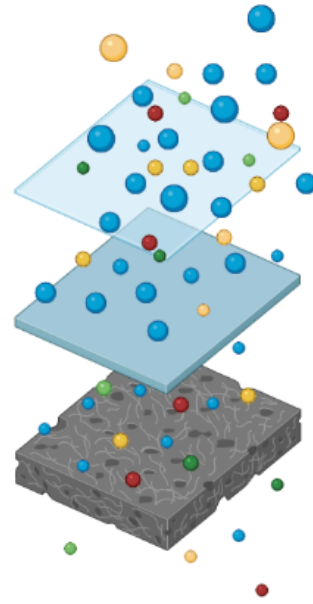


Fig 4. Chemical-free filtering and purifying of OceanDerMX® blend

The third and final layer of TPT Xtraction® is our **proprietary filtration process**. In this step, we **filter** and **purify** our blends by removing any non-essential particulates produced during the initial as well as the ultrasonic processing.

The result is a **visually appealing, transparent** and **almost odourless semi-liquid gel**, delivering an excellent array of bioactives known as:

HYDRATION BOOSTERS

TEWL INHIBITORS

ANTI-MELANOGENESIS ACTIVES

SHIELD FORMING ENVIRONMENTAL PROTECTORS

AGE-DEFYING AGENTS

ANTI-INFLAMMATORY ACTIVES AND

ESSENTIAL VITAMINS AND ANTIOXIDANTS.