

- VALIDATED GENUINE LIPOSOMES • ENHANCED STABILITY
- PARTICLE SIZE CUSTOMISATION • ADVANCED ABSORPTION

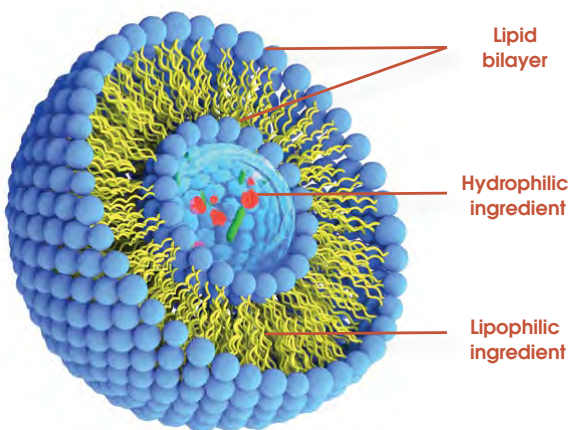
# Targeted delivery with genuine liposomes

PlexoZome® is a scientifically proven complex liposomal technology. Our genuine liposomes are verified through TEM & Cryo-TEM imaging, Zeta potential and DLS testing.

**Stable liposomal technology developed and made in Australia.**

## LIPOSOMES

A liposome is a spherical shaped structure made up of a lipid bilayer membrane around an aqueous core. Their structure encapsulates hydrophilic (water loving) ingredients in their core, or lipophilic (oil loving) ingredients in the bilayer membrane or both. As a liposomal membrane resembles that of cells, together with their tiny size, they are able to pass through cells in the buccal membrane of the mouth. This bypasses the damaging environment of the stomach and subsequent metabolism by the liver. Increasing absorption boosts bioavailability which significantly maximises the ingredient's nutrient benefits.

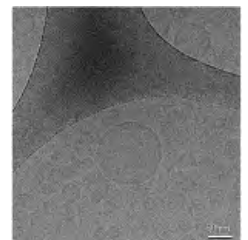


Liposome cross section

## GENUINE LIPOSOMES

Many liposomal supplements are nothing more than phospholipid emulsions, which cannot offer the true absorption benefits of genuine liposomal formulations. Liposomes are tiny complex structures surrounded by a lipid bilayer membrane and are not visible with a standard light microscope. The presence of PlexoZome®

liposomes are validated through Transmission Electron Microscopy (TEM) & Cryo-TEM imaging, the only way to clearly view the structure of liposomes and the structure of their bilayer membrane.



**RIGHT:** Cryo-TEM of PlexoZome® Vitamin D3

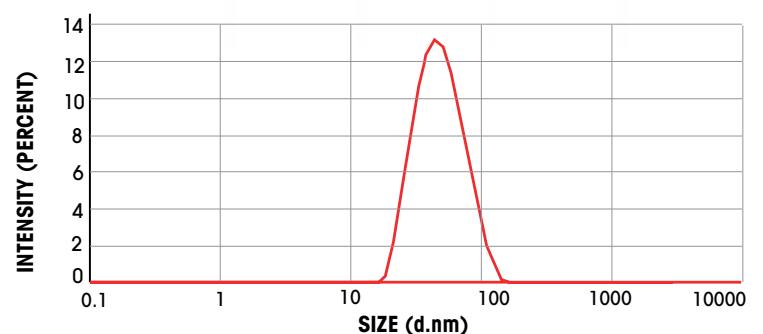
## STABILITY ASSURED

It is important to understand the state of the particle's surface to assure stability. Zeta potential is the surface charge of particles in a solution. A lower Zeta potential value means the particles are unstable and likely to combine. The higher the charge the higher the stability! PlexoZome® formulations high Zeta Potential means they are more stable and there is no clumping/coagulation.

## PARTICLE SIZE VALIDATION

Scientifically validating our liposomal particle size through Dynamic Light Scattering (DLS) means we are able to customise their size, which will also enable you to meet your regulatory requirements.

Particle Size using DLS testing



Record 16: Liposomal GSH, B#20220112\_104 Day-2 1

PlexoZome® formulations are made on site in our TGA licenced facility, which means they are fully customisable to meet all your regulatory specifications and needs!

## READY TO USE

PlexoZome® verified liposomal formulations are supplied ready to use, or pack into your brand's requirements. No mixing or additional processes are required.

## Utilise our readily available PlexoZome® formulations:

- Vitamin B<sub>12</sub>
- Vitamin D<sub>3</sub>
- Vitamin C
- Glutathione
- Hyaluronic acid
- Phospholipids - Phosphatidylcholine
- Collagen
- Nicotinamide riboside (NR)

## We can also collaborate with you to develop your own personalised liposomal formulas.

Pharmako specialise in the research and development of quality advanced delivery systems, and manufacture on site in our TGA licenced facility, adhering to strict GMP. With over 20 published studies and multiple global awards, our cutting-edge products are efficacious, clinically proven and well recognised worldwide. We are keeping you ahead of your competitors!

The word Liposome is derived from the Greek word 'lipo' meaning fat and 'soma' meaning body.

## AWARDS



**AUSTRALIA**  
Wholesale Distributor  
of the Year 2022



**INDIA / AUSTRALIA**  
India Australia Business  
and Community Awards  
SME of the Year 2021



**AUSTRALIA**  
My Business Awards  
Export and Manufacturing  
Business of the Year 2020



**EU and ASIA**  
Start-Up Company  
of the Year 2018



**AUSTRALIA**  
Quality Raw Material Supplier  
of the Year 2021



**AUSTRALIA**  
Quality Raw Material Supplier  
of the Year 2018

Applying PlexoZome® trademark on your product pack tells your customers you are offering a product of quality, proven efficacy, clinical validation and innovation.

**FOR FURTHER INFORMATION ABOUT PLEXOZOME®**  
OR TO DISCUSS HOW PLEXOZOME® CAN BENEFIT YOU, CONTACT:



**Pharmako Biotechnologies**  
T +61 2 9451 0099  
E enquiries@pharmako.com.au  
W www.pharmako.com.au



**Gencor**  
T +1 949 502 5760  
E info@gencorpacific.com  
W www.gencorpacific.com

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