

Supercharge bioavailability by up to 600%

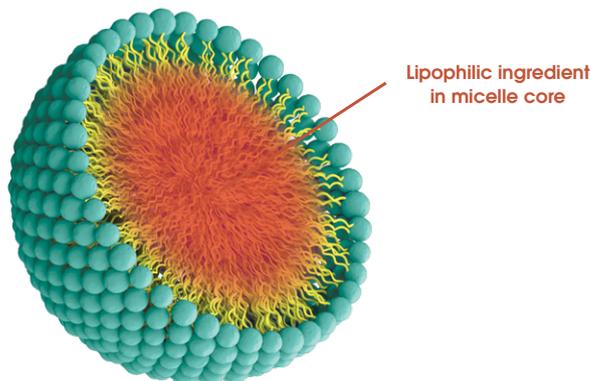
AquaCelle® is a patented delivery system, clinically proven to optimise bioavailability of lipophilic actives while maintaining product stability and offering functional benefits.

Award winning, micellar technology developed and made in Australia.

OPTIMISED MICELLE FORMATION FOR INCREASED BIOAVAILABILITY

AquaCelle® is a Self Emulsifying Delivery System (SEDDS). When AquaCelle® is mixed with a lipophilic (oil loving) active, the mixture immediately emulsifies upon contact with water to then form micelles. Micelle formation is essential for our body to absorb fat soluble nutrients, as our GI Tract is a water-based environment.

AquaCelle® increases the surface area of nutrients in the GI tract, which is how vastly improved bioavailability results are achieved.



Lipophilic ingredient in micelle core

AquaCelle® micelle cross section

AquaCelle® micelles are normally in a range of 0.1-40 microns in diameter which allow them to be more easily absorbed by the body.

FUNCTIONALITY

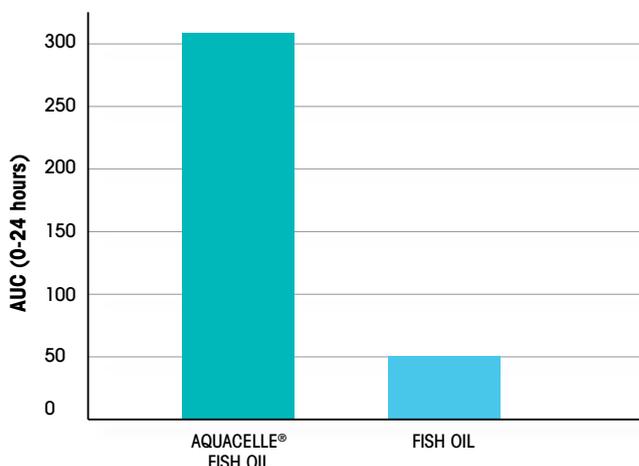
You can now include oily actives in highly bioavailable formulas with innovative formats. Oral gels, drops, functional foods/drinks, gummies are all dosage formats that are now achievable.

SUBSTANTIATED ABSORPTION

Human pharmacokinetic studies prove the active nutrient is delivered to systemic circulation at significantly higher levels with AquaCelle®.

- 6x increase in bioavailability performance with Omega-3 Fish Oils.
- 3x increase in bioavailability performance with CoQ₁₀.
- Equivalent absorption to Ubiquinol (without risk of unstable formula).
- 3x increase in bioavailability with lutein.

Absorption comparison of AquaCelle® enhanced fish oil vs standard fish oil



The area under the curve (or AUC) of plasma concentration of an active ingredient versus time after dosage, gives insight into the extent of exposure to an active ingredient and its clearance rate from the body

AquaCelle® in your formulation meets consumer needs like:

- **Pill Fatigue**
"I want to take fewer and smaller pills."
- **Sustainability**
"I don't want to consume more than I need."
- **Convenience**
"I forget to take my supplements with a fatty meal."
- **Reflux**
"I'll try it but if I experience unpleasant side effects I might stop."
- **Health Outcomes**
"Is this the best product I can take to reach my health goals."

AquaCelle® allows you to:

- Improve cost per dose.
- Reduce dose – size/number of capsules.
- Create supplements which can be taken without food.
- Develop highly bioavailable formulas.
- Make room for multi-active formulations.
- Overcome unpleasant side effects such as fishy reflux.
- Include oily actives in water based formulas.
- Overcome stability risks and overage issues associated with unstable actives (eg ubiquinol and lutein).

Multi-award winning, supported by pharmacokinetic and clinical studies published in high impact journals, with a raft of continuing clinical studies under way.

- 1 PK Study - AquaCelle® Omega-3: A self-emulsifying Omega-3 ethyl ester formulations AquaCelle® significantly improves eicosapentaenoic and docosahexaenoic acid bioavailability in healthy adults.** Bremmell, K.E., Briskey, D., Meola, T.R. et al. Eur J Nutr 59, 2729–2737 (2020). doi.org/10.1007/s00394-019-02118-x
- 2 PK Study - AquaCelle® CoQ₁₀: The impact of micelle size and increased absorption of ubiquinone using a novel delivery system (AquaCelle®).** David Briskey, Andrew T Sax, Alistair R Mallard, Charlie Ng and Amanda Rao. International Journal of Pharmacokinetics vol.4 ,no. 2 (2019). doi.org/10.4155/ipk-2019-0004

AWARDS



ASIA
AquaCelle® Omega-3
Ingredient of the Year
Healthy Ageing



USA
AquaCelle® Q₁₀
Healthy Ageing
Ingredient of the Year



ASIA
AquaCelle® Q₁₀
Ingredient of the Year
Healthy Ageing

EUROPE
AquaCelle®
Nutrition Research Project
of the Year

AWARDS 2019

EUROPE
AquaCelle® Q₁₀
Healthy Ageing
Ingredient of the Year



2023 Australia
Quality Wholesaler/Distributor
of the Year

2022
Quality Wholesaler/Distributor
of the Year

2021
Quality Raw Material Supplier
of the Year

2018
Quality Raw Material Supplier
of the Year



2023 Australia
Exporter of the Year

Manufacturing and
Advanced Materials

2022 Australia
International Health Winner

Applying AquaCelle® 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 AQUACELLE®
OR TO DISCUSS HOW AQUACELLE® CAN BENEFIT YOU, CONTACT:



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