

# Power up dispersion with 90% active load

LipiSpense® is an advanced cold water dispersion (CWD) technology, specifically designed to dramatically increase bioavailability and functionality of lipophilic actives in powder or crystalline form.

**Multi award winning, patented technology, developed and made in Australia.**

Often improving bioavailability by using standard methods leads to decreased active loads in final formulations. However, LipiSpense®'s superior performance means only 10% LipiSpense® is required with an impressive 90% active load, the largest amount of active/nutrient ratio in a water dispersible formulation.

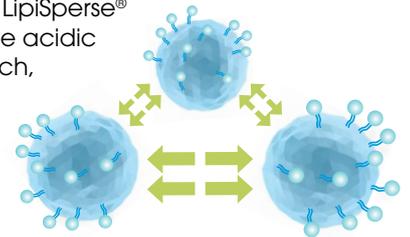


## IMPROVED FUNCTIONALITY

You are now able to include lipophilic actives in interesting /exciting format options. Oral gels, drops, functional foods /drinks, gummies are all dosage formats that are now achievable. High growth categories are charging forward with product formats needing high quality water dispersible powders. LipiSpense® powders allow you to create innovative formulations by adding nutrients previously not possible.

## INNOVATIVE TECHNOLOGY

LipiSpense® coats the active lipophilic (oil loving) crystals and transforms their surface into a hydrophilic (water loving) area. This property allows the LipiSpense® coated crystal to now easily disperse in water which, in turn, increases the body's ability to absorb it. LipiSpense® also offers protection to the acidic environment of the stomach, allowing it to avoid immediate breakdown.



## REIMAGINE BIOAVAILABILITY

Significant increase in bioavailability of various lipophilic actives powered by LipiSpense® have been proven in multiple pharmacokinetic studies and published in high impact factor journals. Demonstrated superior absorption results are available for curcumin (HydroCurc®), resveratrol (Veri•Spense®) and PEA (Levagen®+).

### Ingredients powered by LipiSpense® can now be formulated in:

- Powdered drinks.
- Effervescent tablets.
- High bioavailable formulas.
- Direct in mouth powder sachets.
- Drinks, liquids, shots and gels.
- Functional foods and drinks.

### LipiSpense® in action 60 second dispersion



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

- PK Study - HydroCurc®:** Increased bioavailability of curcumin using a novel dispersion technology system (LipiSpense®). Briskey D., Sax A., Mallard AR., Rao A. Eur J Nutr. 2019 Aug;58(5): 2087-2097. [doi.org/10.1007/s00394-018-1766-2](https://doi.org/10.1007/s00394-018-1766-2)
- PK Study - Levagen®+:** Increased absorption of Palmitoylethanolamide using a novel dispersion technology System (LipiSpense®). Briskey D, Mallard A, Rao A J. Nutraceuticals Food Sci Vol.5 No.2:3. (2020). DOI: 10.36648/nutraceuticals.5.2.3
- PK Study - Veri • Spense®:** Trans-Resveratrol oral bioavailability in humans using LipiSpense® dispersion technology. Briskey D, Rao. Pharmaceutics 2020, 12, 1190. [doi.org/10.3390/pharmaceutics12121190](https://doi.org/10.3390/pharmaceutics12121190)
- Clinical Trial - DOMS study HydroCurc®:** Curcumin improves delayed onset muscle soreness and post-exercise lactate accumulation. Mallard A, Briskey D, Richards A, et al. Journal of Dietary Supplements.(2020). [doi.org/10.1080/19390211.2020.1796885](https://doi.org/10.1080/19390211.2020.1796885)
- Clinical Trial - Exercise study Levagen®+:** The effect of orally dosed Levagen®+ (palmitoylethanolamide) on exercise recovery in healthy males. Mallard A, Briskey D, Richards A, et al. Nutrients 2020, 12, 596; (2020). [doi.org/10.3390/nu12030596](https://doi.org/10.3390/nu12030596)
- Clinical Trial - Joint pain Levagen®+:** The effect of a dispersible palmitoylethanolamide (Levagen®+) compared to a placebo for reducing joint pain in an adult population. Steels E, Venkatesh R, Steels E, Vitetta G, Vitetta L. Inflammopharmacology 2019 Jun;27(3): 475-485. [doi.org/10.11648/j.jinfs.20211001.12](https://doi.org/10.11648/j.jinfs.20211001.12)
- BDNF Study - HydroCurc®:** Co-administration of iron and a bioavailable curcumin supplement increases serum BDNF levels in healthy adults. Lorinczova HT, Fitzsimons O, et al. Antioxidants 2020, 9, 645; (2020). [doi.org/10.3390/antiox9080645](https://doi.org/10.3390/antiox9080645)
- Iron Study - HydroCurc® + Iron:** Acute administration of bioavailable curcumin alongside ferrous sulphate supplements does not impair iron absorption in healthy adults in a randomised trial. Lorinczova HT, Begum G, Renshaw D, Zariwala, MG. Nutrients 2021,13 (7), 2300. [doi.org/10.3390/nu13072300](https://doi.org/10.3390/nu13072300)
- Inflammation Study - HydroCurc® + Iron:** Co-administration of iron and bioavailable curcumin reduces levels of systemic markers of inflammation and oxidative stress in a placebo-controlled randomised study. Tiekou Lorinczova H, Begum G, Temouri L, Renshaw D, Zariwala MG. Nutrients. 2022; 14(3):712. [doi.org/10.3390/nu14030712](https://doi.org/10.3390/nu14030712)
- Joint Study - HydroCurc®:** The effect of a dispersible curcumin (HydroCurc®) compared to a placebo for reducing joint pain in an adult population - a randomised, double-blind study. Briskey D, Roche G, Rao A. Complement Med Res. 2022;29(6):429-436. [doi.org/10.1159/000524689](https://doi.org/10.1159/000524689)
- Covid-19 Study - HydroCurc®** Curcumin confers anti-inflammatory effects in adults who recovered from COVID-19 and were subsequently vaccinated: a randomized controlled trial. Fessler SN, Chang Y, Liu L, Johnston CS. Nutrients. 2023; 15(7):1548. [doi.org/10.3390/nu15071548](https://doi.org/10.3390/nu15071548)
- Sleep Study - Levagen®+:** Palmitoylethanolamide for sleep disturbance. A double-blind, randomised, placebo-controlled interventional study. Rao A, Ebel P, Mallard A, Briskey D. Sleep Sci Pract. 2021;5(1):12. [doi.org/10.1186/s41606-021-00065-3](https://doi.org/10.1186/s41606-021-00065-3)
- Joint/Knee Pain Study - Levagen®+:** A double-blind randomized placebo controlled study assessing safety, tolerability and efficacy of palmitoylethanolamide for symptoms of knee osteoarthritis. Steels E, Venkatesh R, Steels E, Vitetta G, Vitetta L. Inflammopharmacology. 2019;27(3):475-485. [doi.org/10.1007/s10787-019-00582-9](https://doi.org/10.1007/s10787-019-00582-9)
- Lifestyle Management - Levagen®+:** Palmitoylethanolamide: A natural compound for health management. Clayton P, Hill M, Bogoda N, Subah S, Venkatesh R. Int J Mol Sci.2021;22 (10):5305. [doi.org/10.3390/ijms22105305](https://doi.org/10.3390/ijms22105305)
- Covid Study - Levagen®+:** Effects of Palmitoylethanolamide on proinflammatory markers in adults recently diagnosed with COVID-19. Samantha Fessler, Yung Chang, Carol Johnston, Li Liu. Current Developments in Nutrition, Volume 6, Supplement 1,2022. [doi.org/10.1093/cdnznac048.014](https://doi.org/10.1093/cdnznac048.014)

## AWARDS



**2022 Europe**  
**HydroCurc®**  
Ingredient of the Year for Sports Nutrition

**2022 USA**  
**HydroCurc®**  
Ingredient of the Year for Sports Nutrition

**2021 Asia**  
**HydroCurc®**  
Sporting Ingredient of the Year

**2020 Asia**  
**HydroCurc®**  
Ingredient of the Year for Cognitive Function

**2019 Asia**  
**LipiSpense®**  
Research Project of the Year

**2019 Asia**  
**LipiSpense®**  
Innovation of the Year

**2018 Asia**  
**HydroCurc®**  
Botanical Product of the Year



**2022 Australia**  
International Health Winner



**2020 HydroCurc®**  
Best Sports Nutrition Ingredient

**2019 LipiSpense®**  
Most Innovative Idea



**2022 Australia**  
Wholesale Distributor of the Year

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

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

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

FOR FURTHER INFORMATION ABOUT LIPISPERSE® OR TO DISCUSS HOW LIPISPERSE® CAN BENEFIT YOU CONTACT:



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