The background of the slide is a white surface covered with a pattern of blue oval shapes. These ovals are arranged in a way that creates a sense of depth and perspective, appearing to recede into the distance. The ovals vary in shade, with some being a vibrant blue and others a lighter, sky-blue color. They are oriented horizontally and are densely packed in some areas, while more sparse in others, contributing to a dynamic, textured effect.

Delivery systems for nutraceuticals
Enhanced bioavailability and
improved functionality for lipophilic nutrients

Potential sales



Current sales



What is innovation in health?

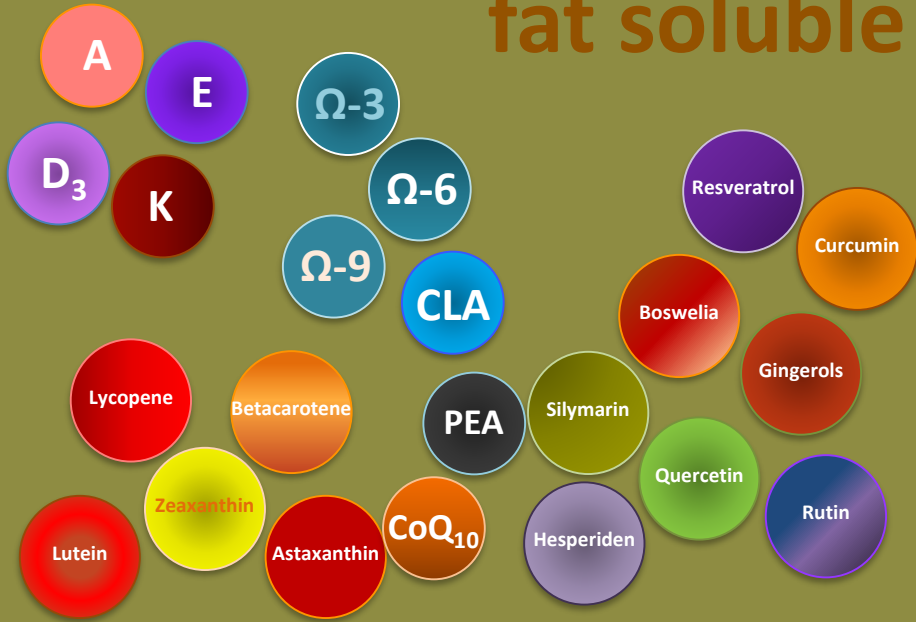


Why do we need innovation?

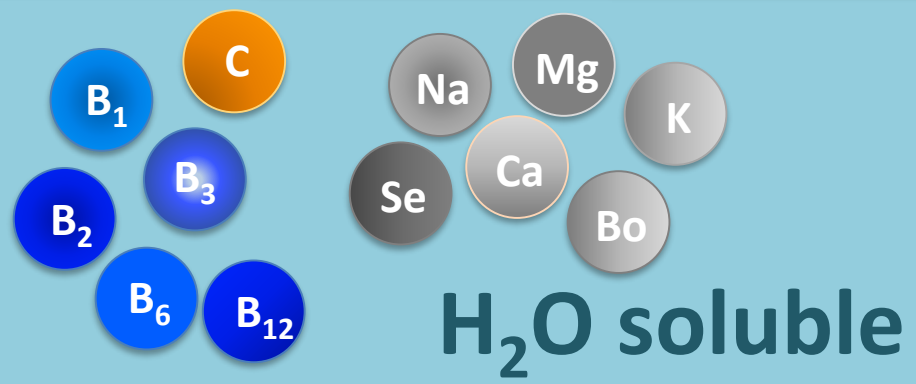




fat soluble

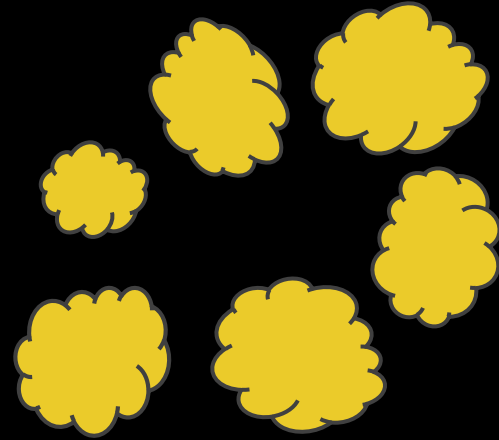


Poorly absorbed
Stored in the body



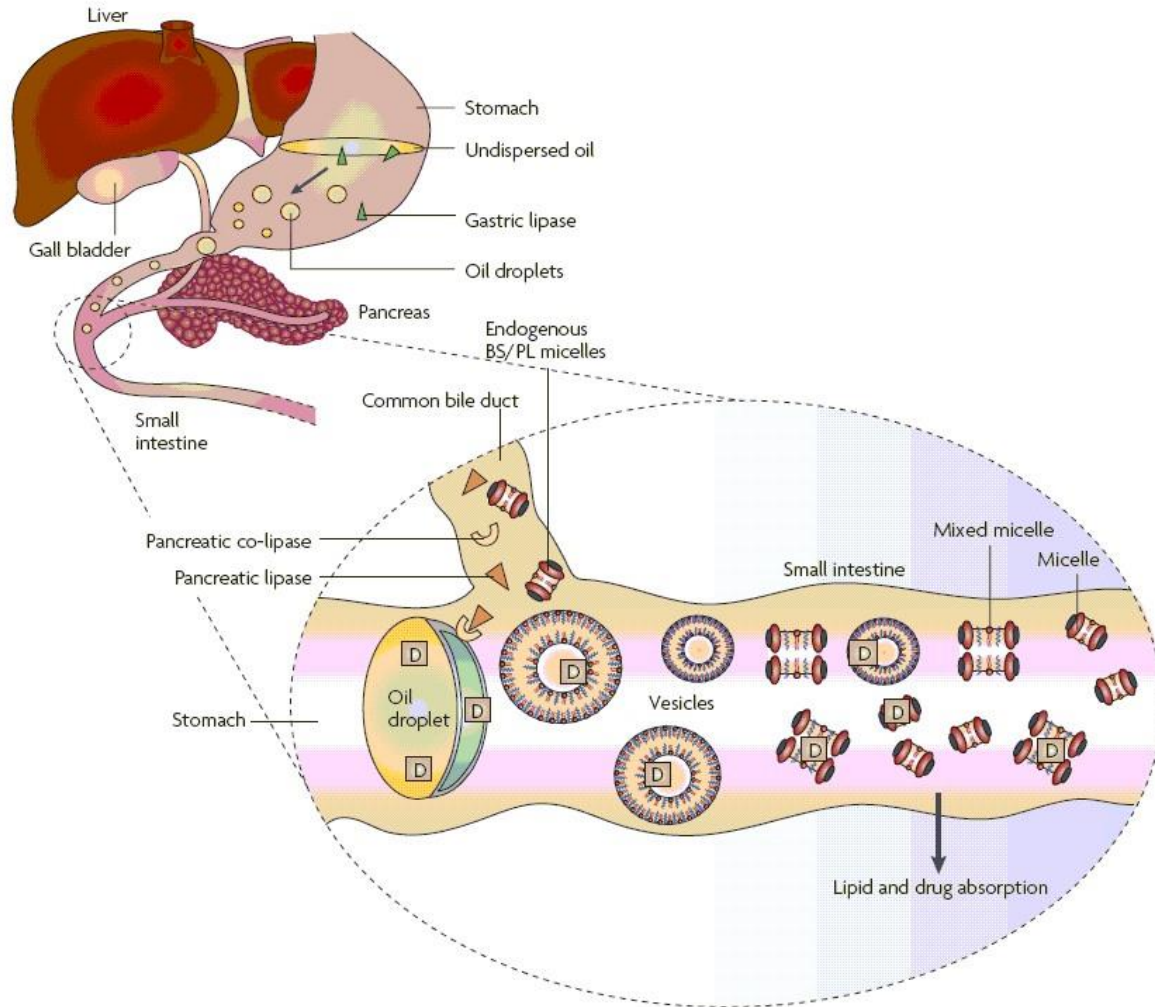
Well absorbed
Excreted in urine

Lipid:
a fat-like molecule that
does not have the ability
to dissolve in water



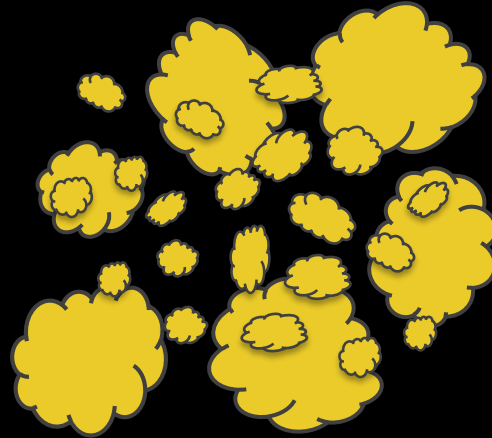
Digestion and
solubilization of
dietary oils:

Bile salts and
Pancreatic lipase



Bile salts act as an emulsifier of lipids

Emulsify = break
large fat droplets
into small
droplets



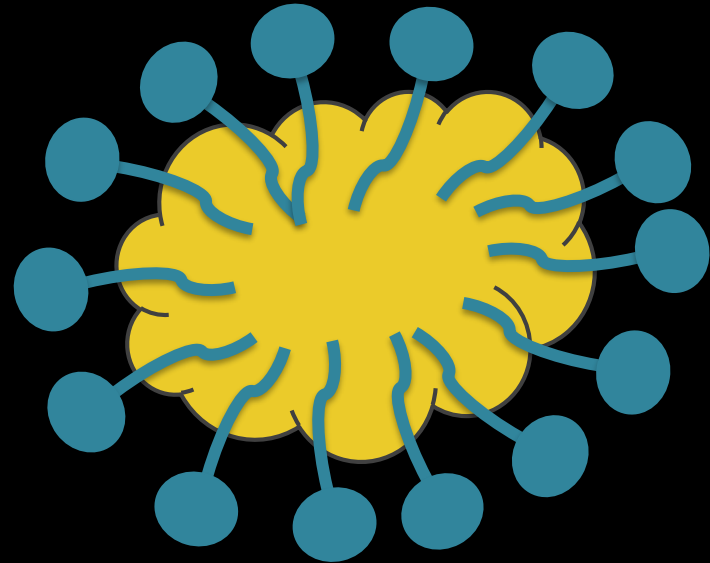
Bile salts act as an emulsifier of lipids

bile salts coat the lipid to
form micelles

Structure of Micelles

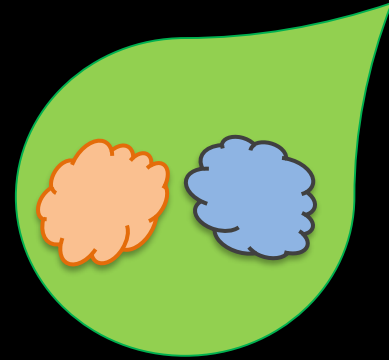
Hydrophilic head
= water loving

Lipophilic tail
= fat loving



Pancreatic Lipase - the fat digesting enzyme

Digestive
products of
lipids

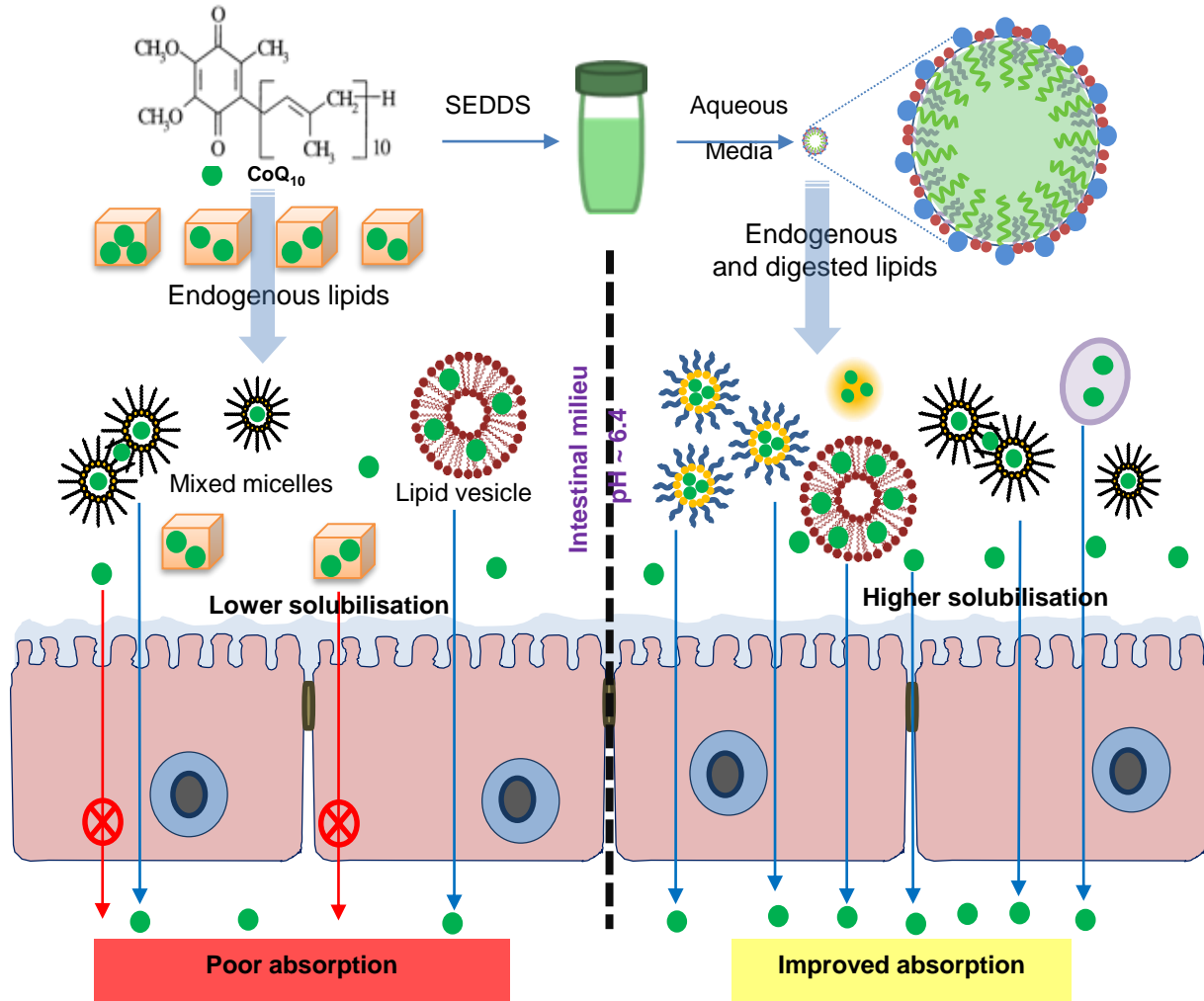


Free Fatty Acids

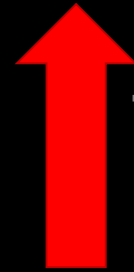
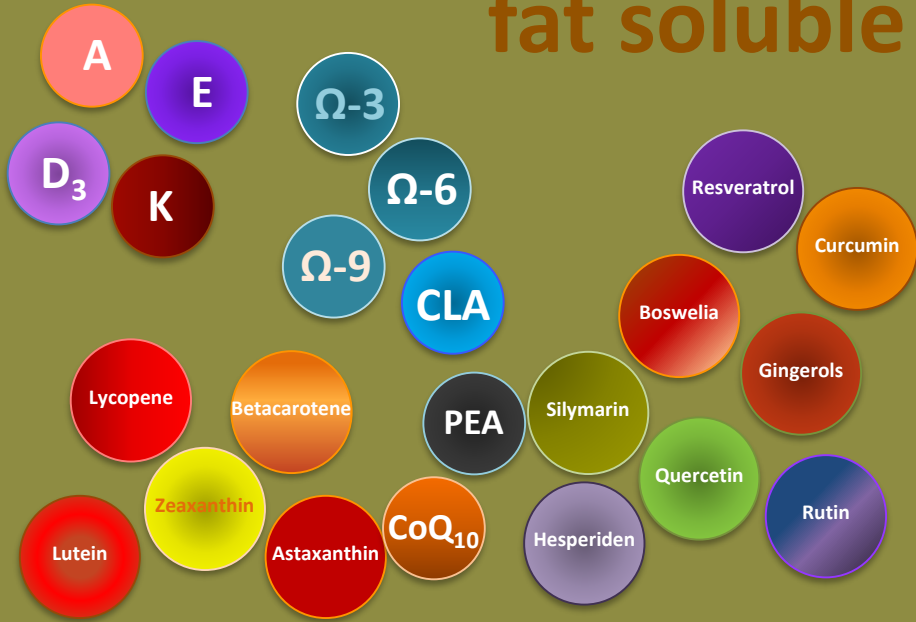
Monoglycerides

for absorption,
the lipids need:

- to adhere
- to be adsorbed



fat soluble



therapeutic dose

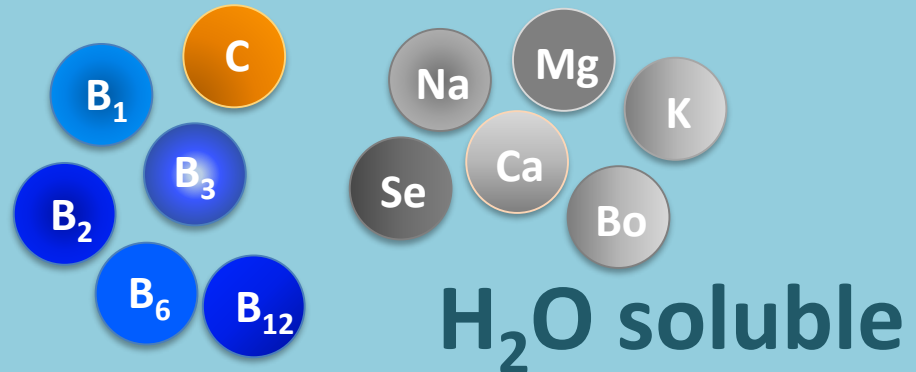
high

absorption

low



H₂O soluble



lower therapeutic doses

easily absorbed

... in any dosage format



AquaCelle®

MICELLAR TECHNOLOGY

SMEDDs

Self Micro-
Emulsifying
Drug Delivery
Systems
using AquaCelle®

CPOs

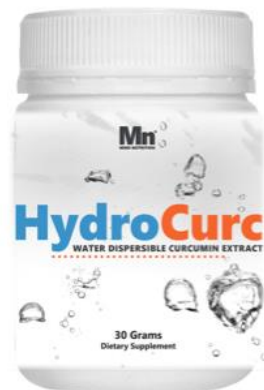
Compressible
Powdered Oils
using AquaCelle®

LipiSpense®

DISPERSION TECHNOLOGY

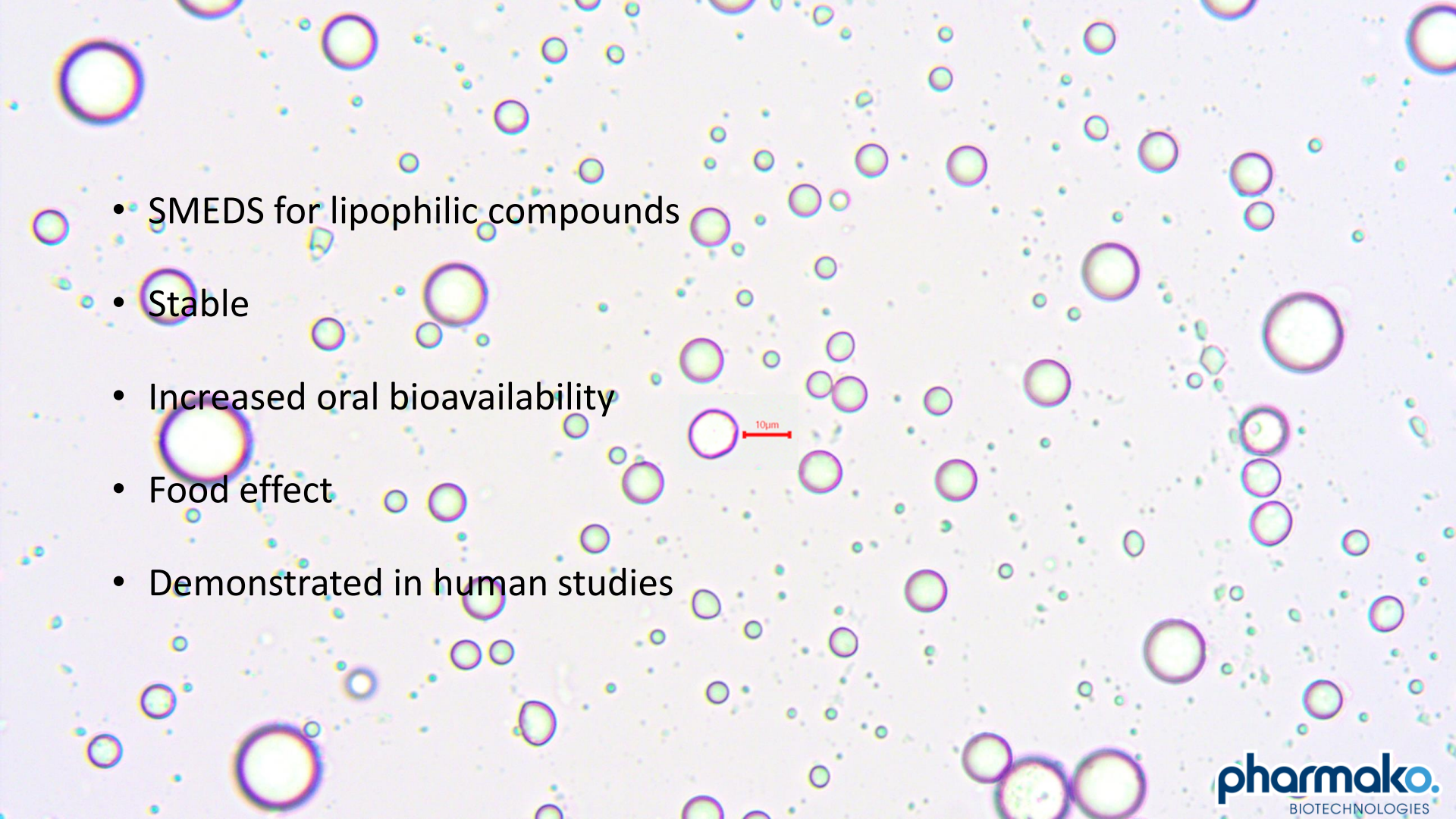
CWDs

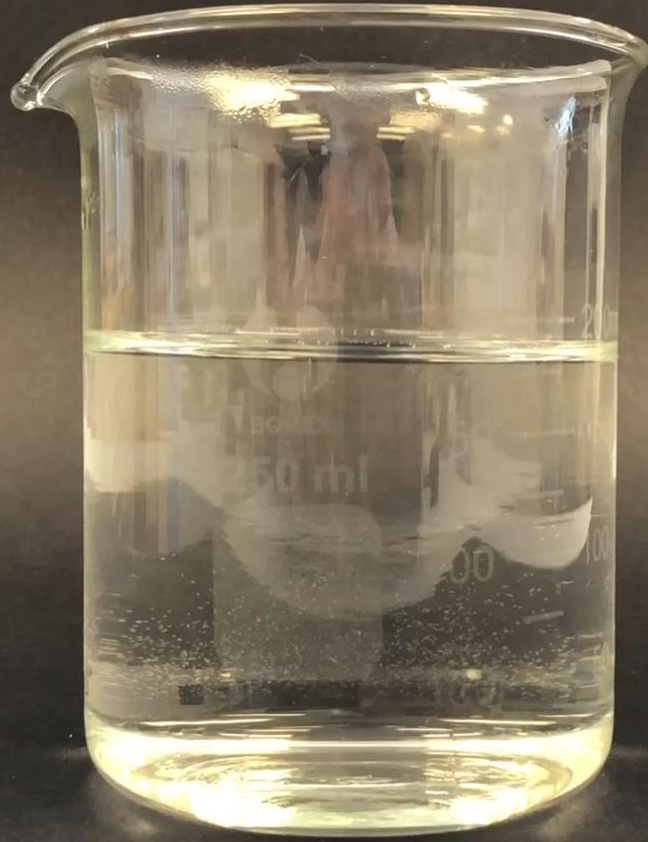
Cold Water
Dispersible
Powders
using LipiSpense®

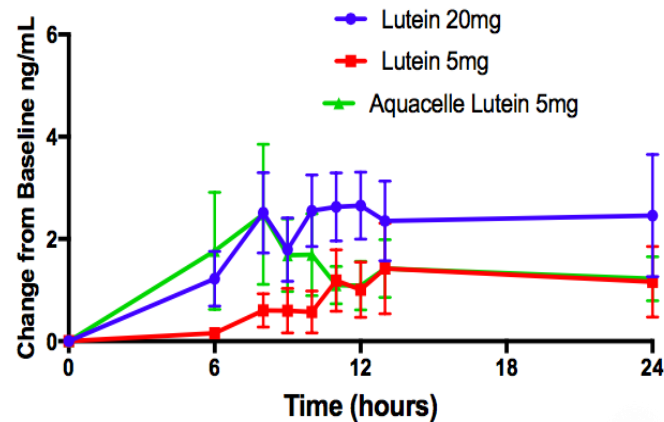
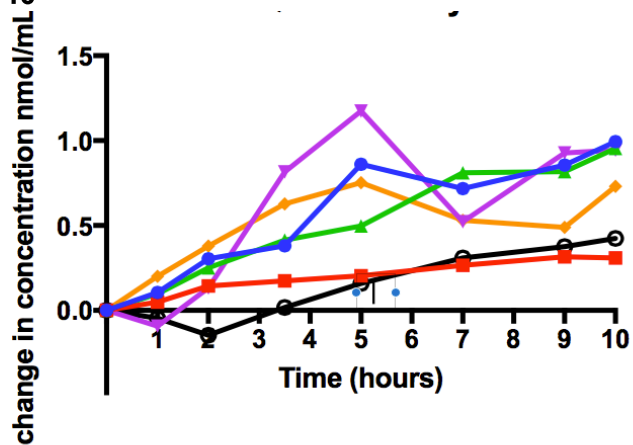
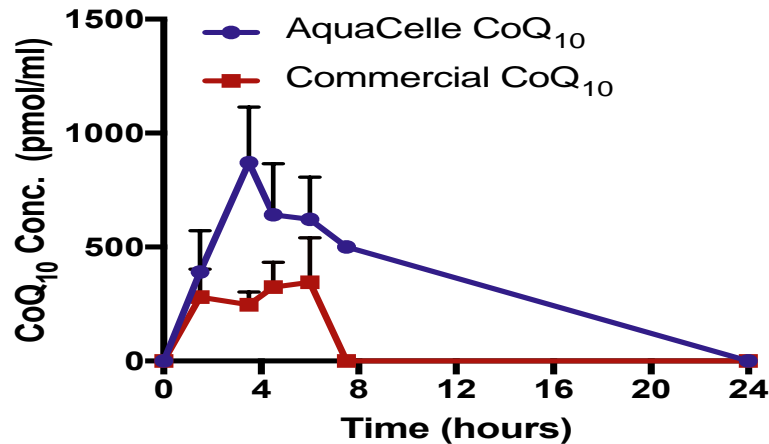
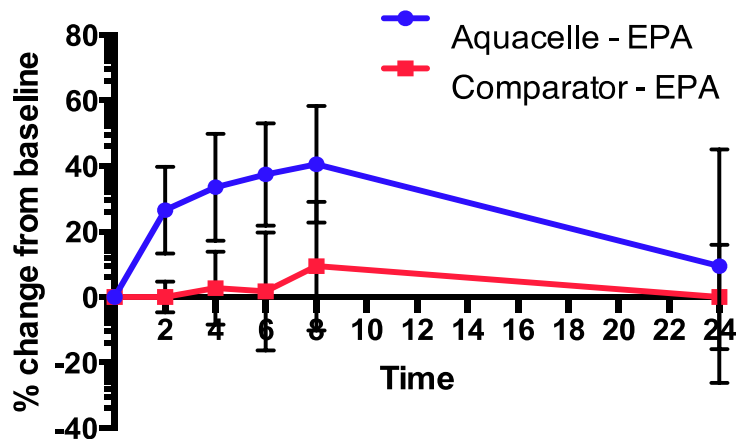


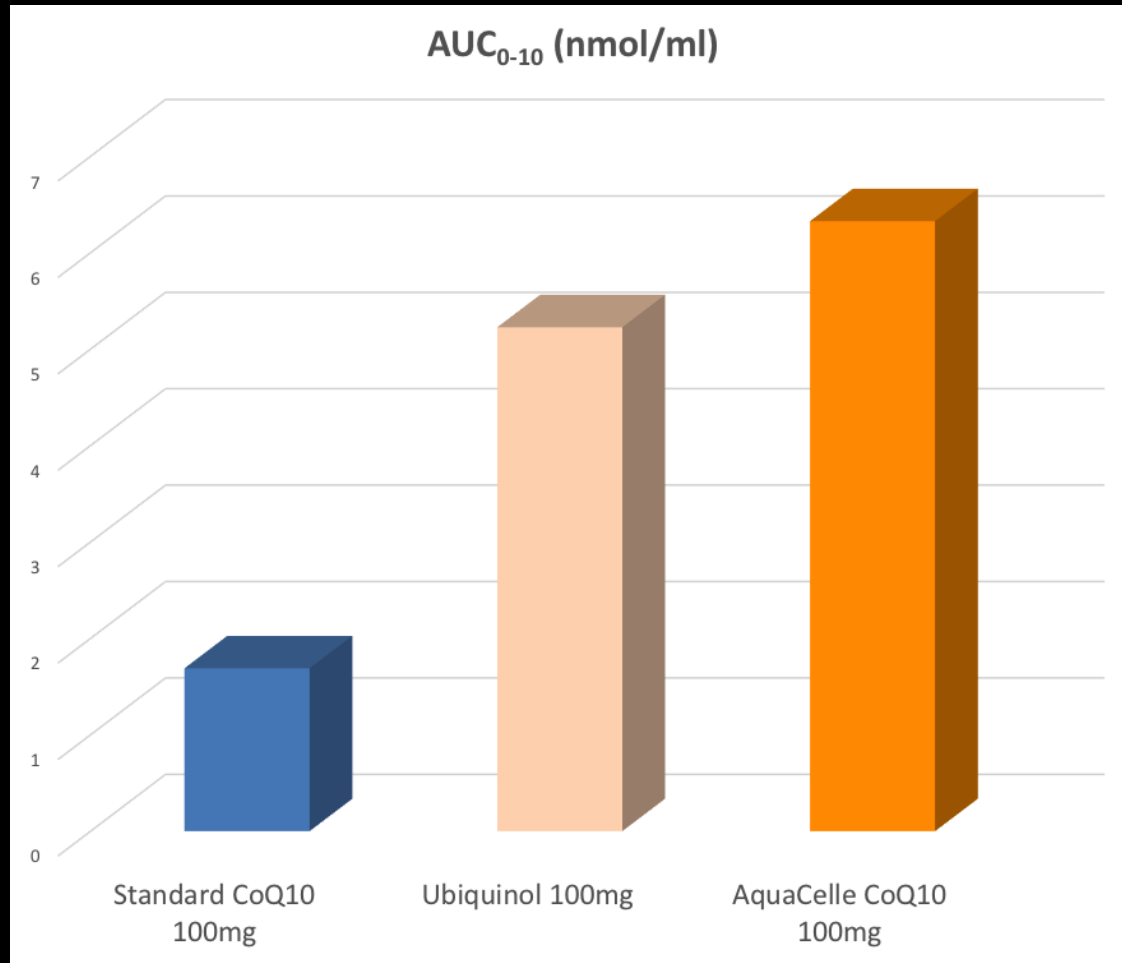


aquacelle®
MICELLAR TECHNOLOGY

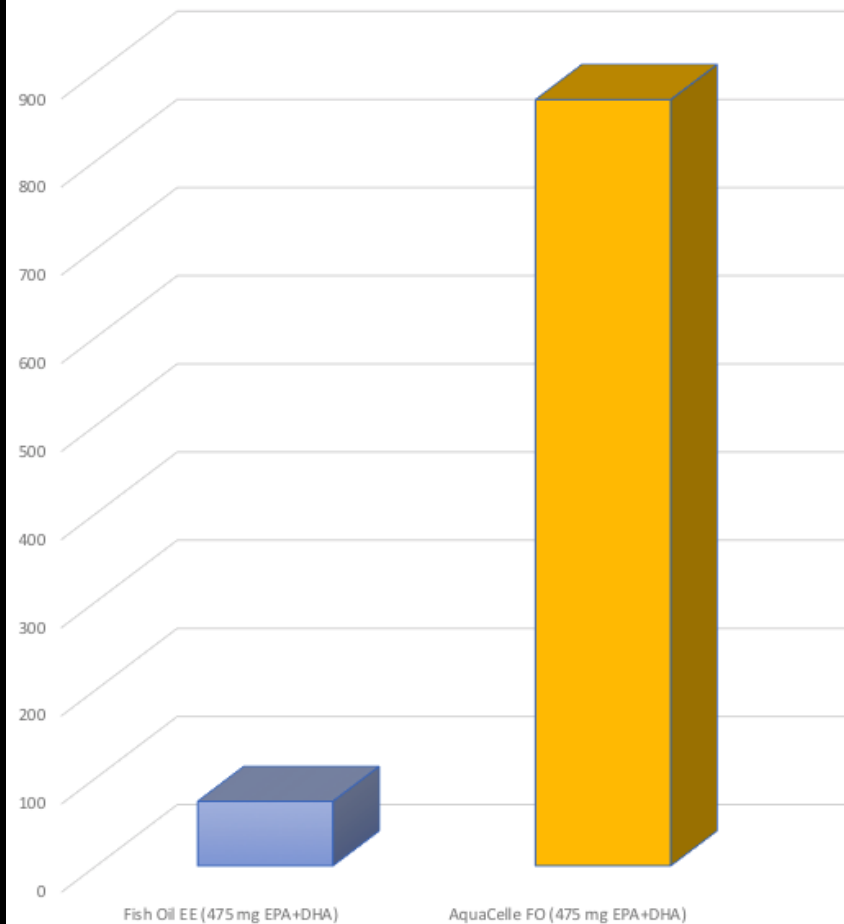
- 
- SMEDS for lipophilic compounds
 - Stable
 - Increased oral bioavailability
 - Food effect
 - Demonstrated in human studies



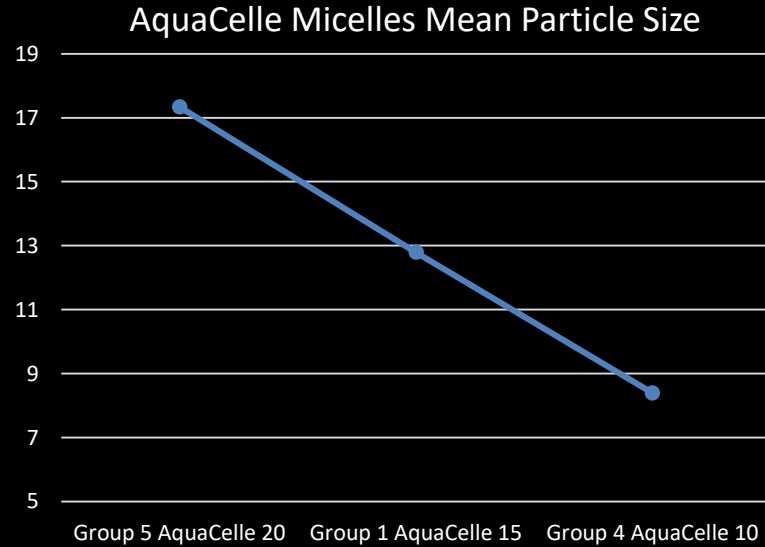
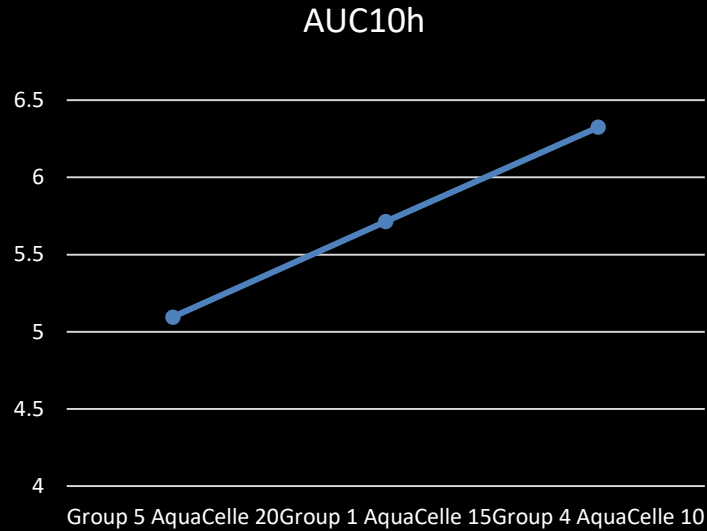




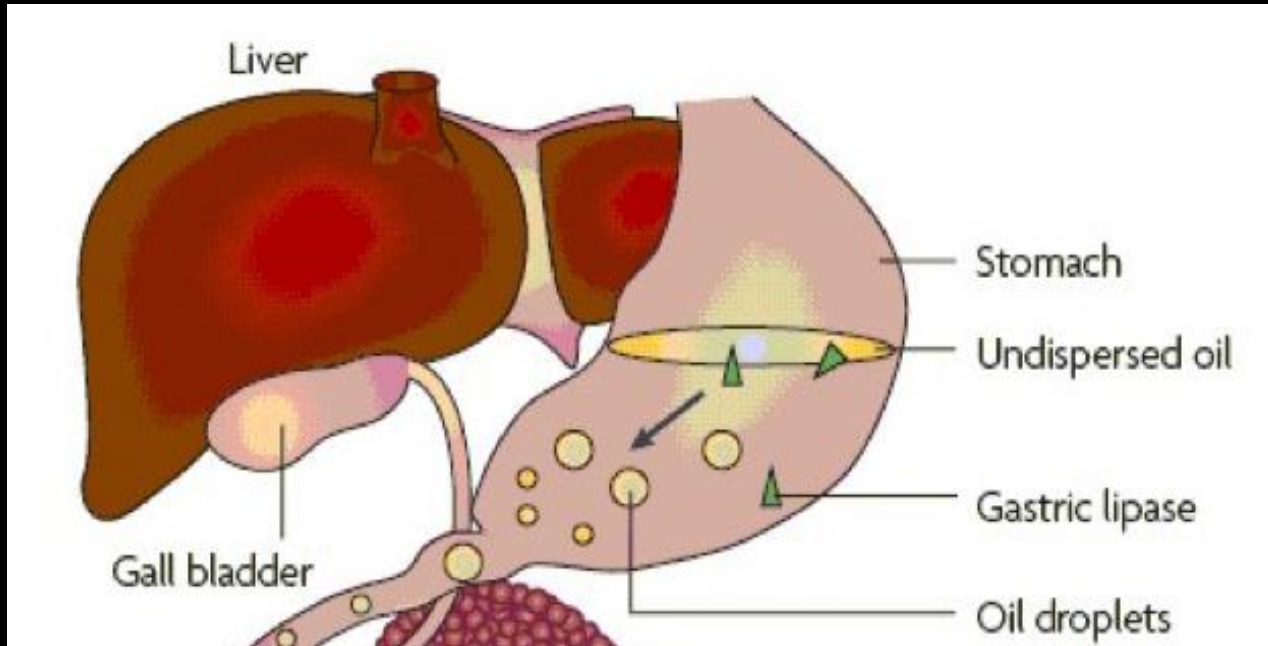
AUC₀₋₂₄ (mcg/ml)



Correlation between micelle size and enhanced bioavailability.



AquaCelle not only increases bioavailability – it also removes “fishy” reflux.



Regular fish oil, from oil or Powder, “floats” on top of stomach contents

AquaCelle micelles disperse in the aqueous environment of the gut

CPOs

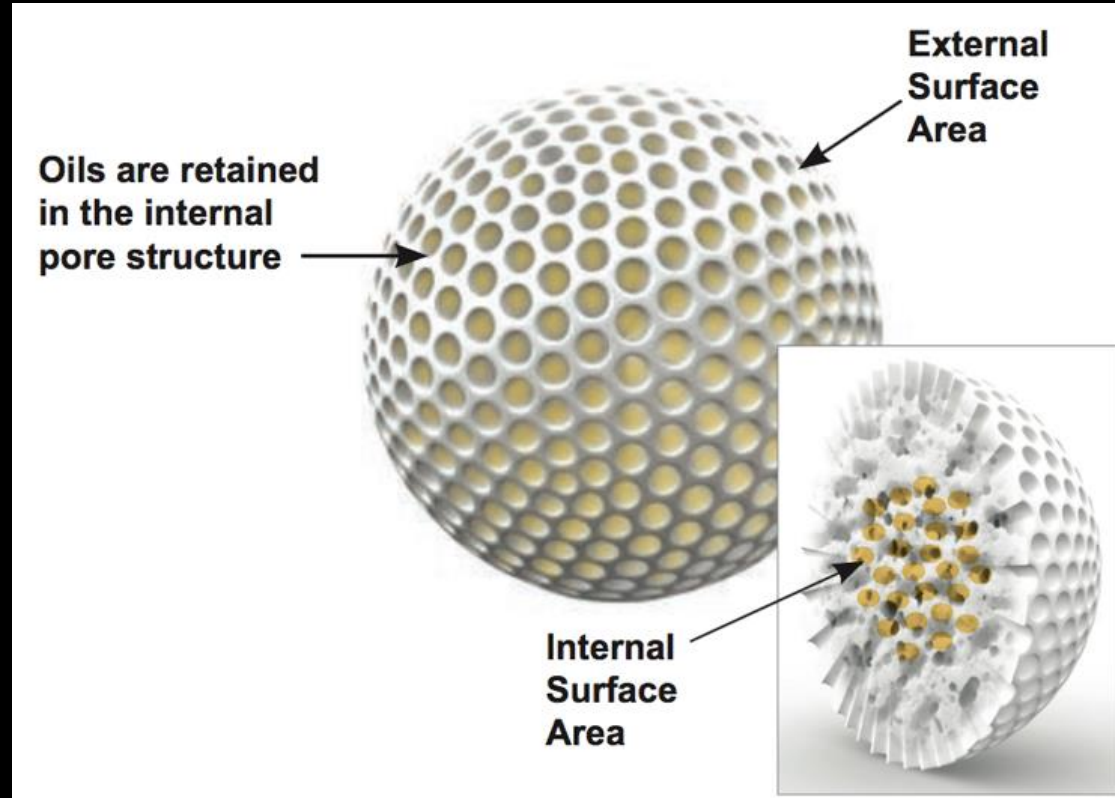
Compressible Powdered oils

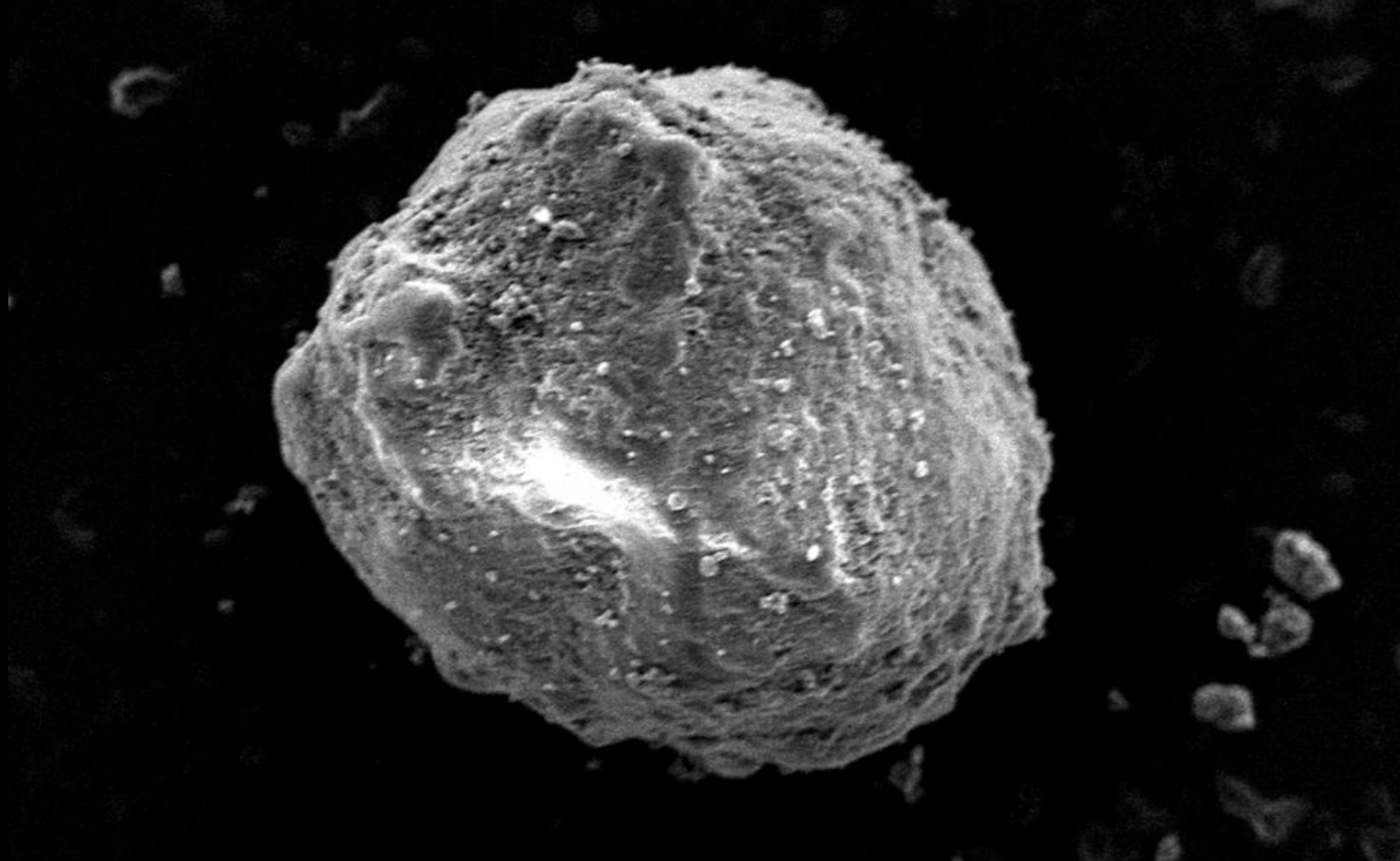


AquaCelle®

Compressible Powdered Oils

Specifically designed for
lipids / oils
Wide variety of active
ingredients
Customisation





20 μm



EHT = 5.00 kV

WD = 7.6 mm

Signal A = SE2

Photo No. = 15520

Date :20 Sep 2016

Time :12:11:40

pharmako.
BIOTECHNOLOGIES

CPOs

Compressible Powdered oils

Overcoming Tabletting Challenges



CPOs

Compressible Powdered oils

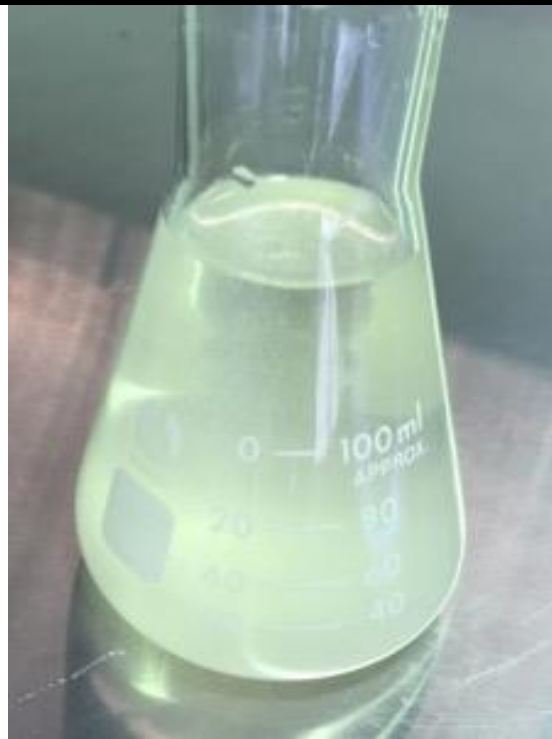
Enable a broad range of potential applications:

- tablets
- hard capsules
- beverages
- foods
- protein shakes
- infant formula
- meal replacements
- Fish oils
- Algal oil
- Krill oil
- Chia oil
- CLA
- EPO
- Lavender oil

CWD

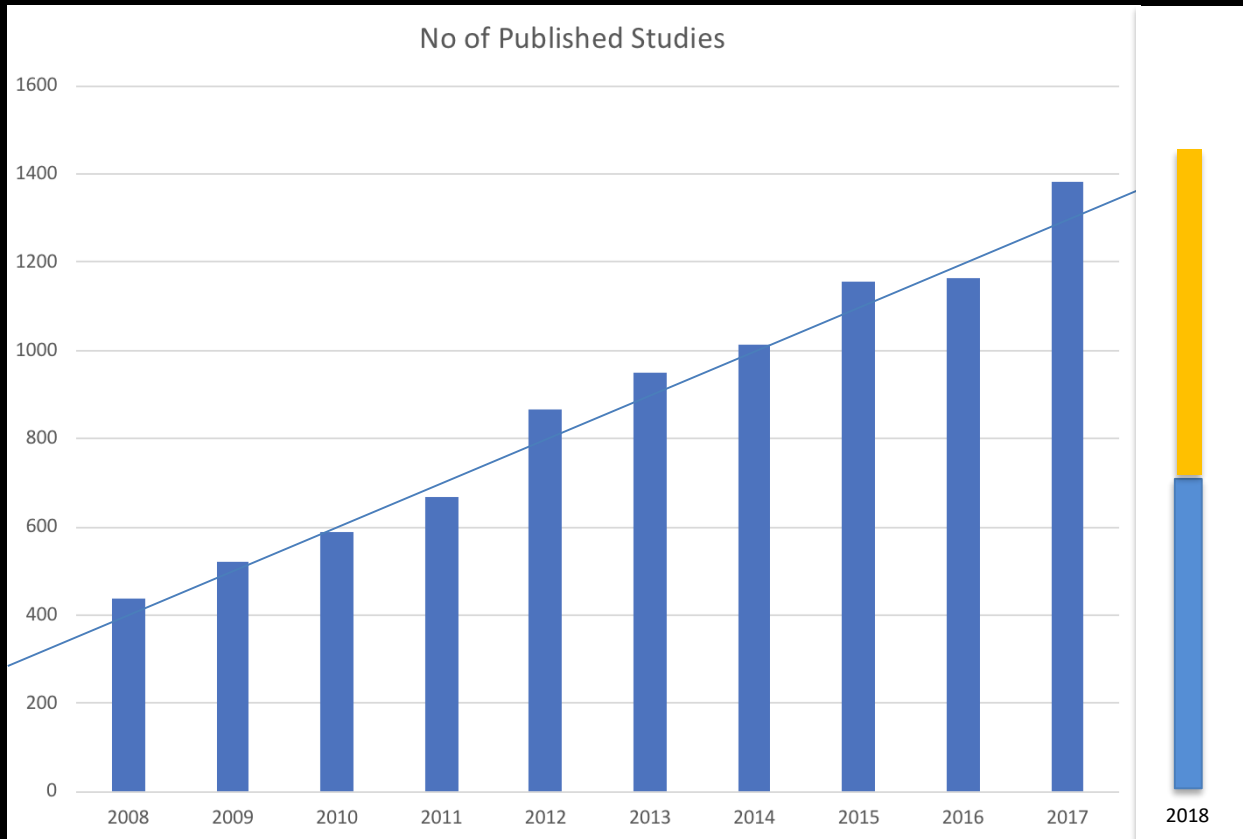
Cold Water Dispersible

Powders using LipiSperse®





Why curcumin? The most researched ingredient!



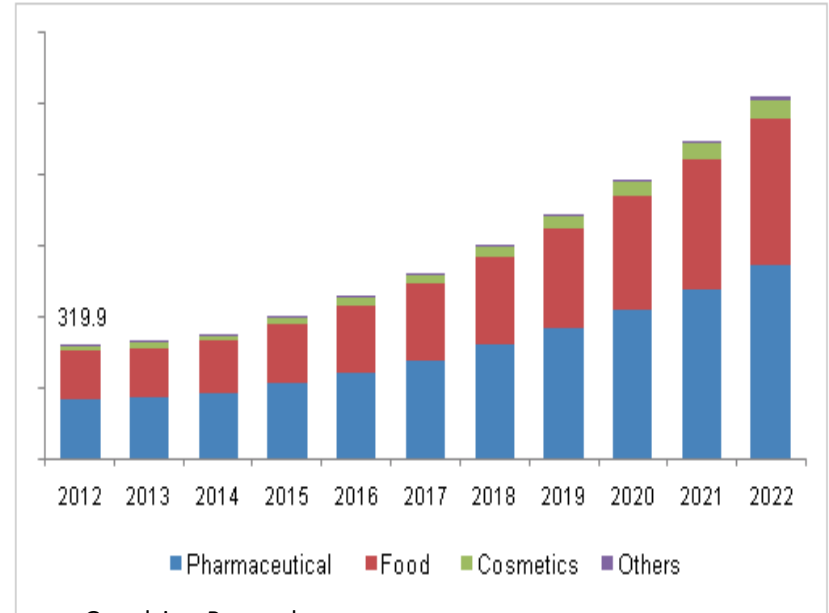
Curcumin is hot



Google classified turmeric (curcumin) as the “breakout star” of the functional food movement of the past five years.

300% increase in searches

Global curcumin market, by application, 2012 - 2022 (Tons)



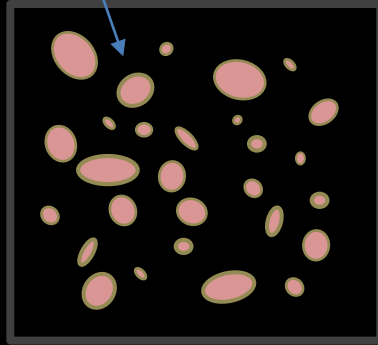
Grandview Research



LipiSpense®

DISPERSION TECHNOLOGY

Primary particle

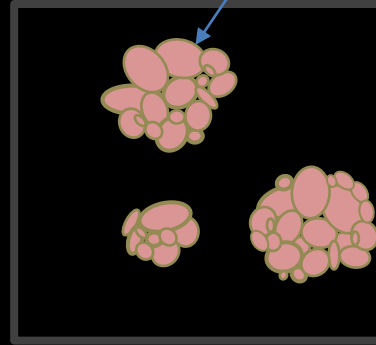


Perfect Dispersion:

Effective Specific Surface Area Large

= ENHANCED BIOAVAILABILITY

Agglomerate behaving as one single large particle



Poor Dispersion:

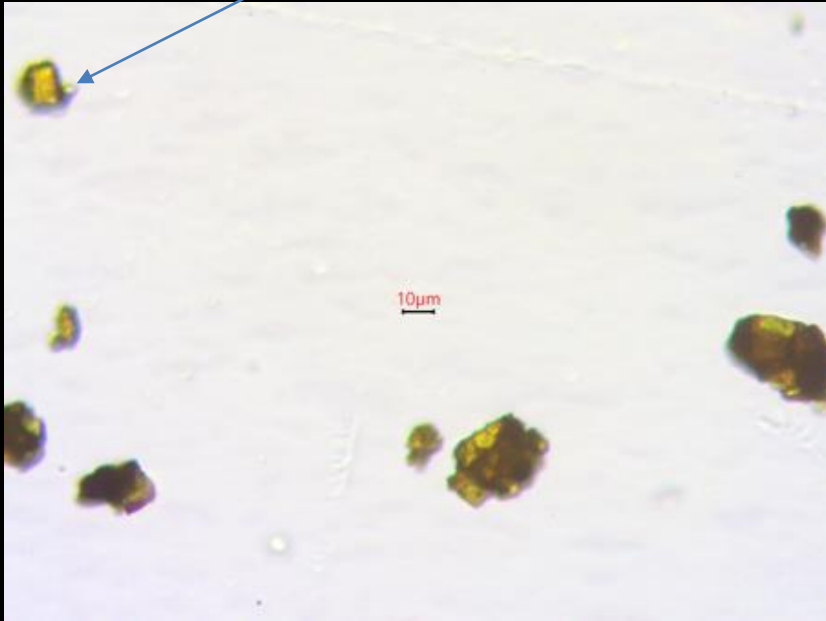
Effective Specific Surface Area Small

= POOR BIOAVAILABILITY

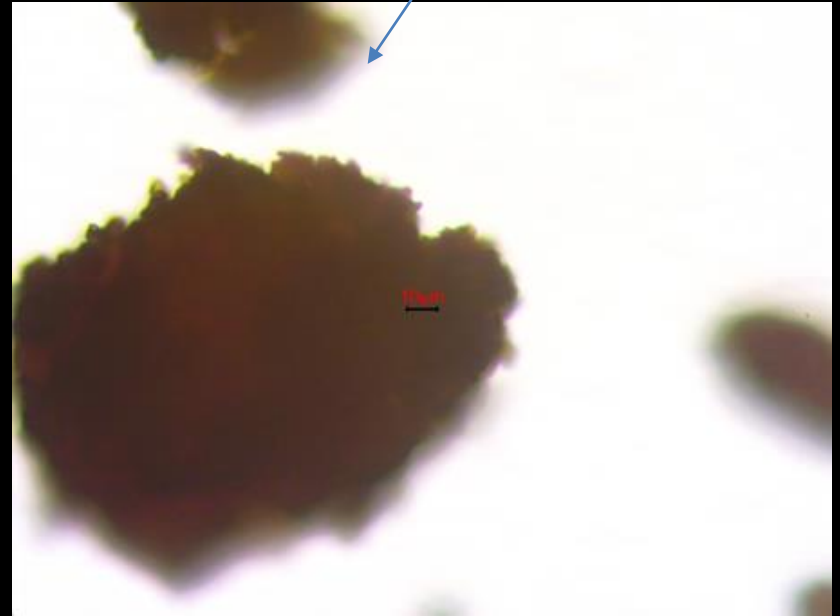
LipiSperse®

DISPERSION TECHNOLOGY

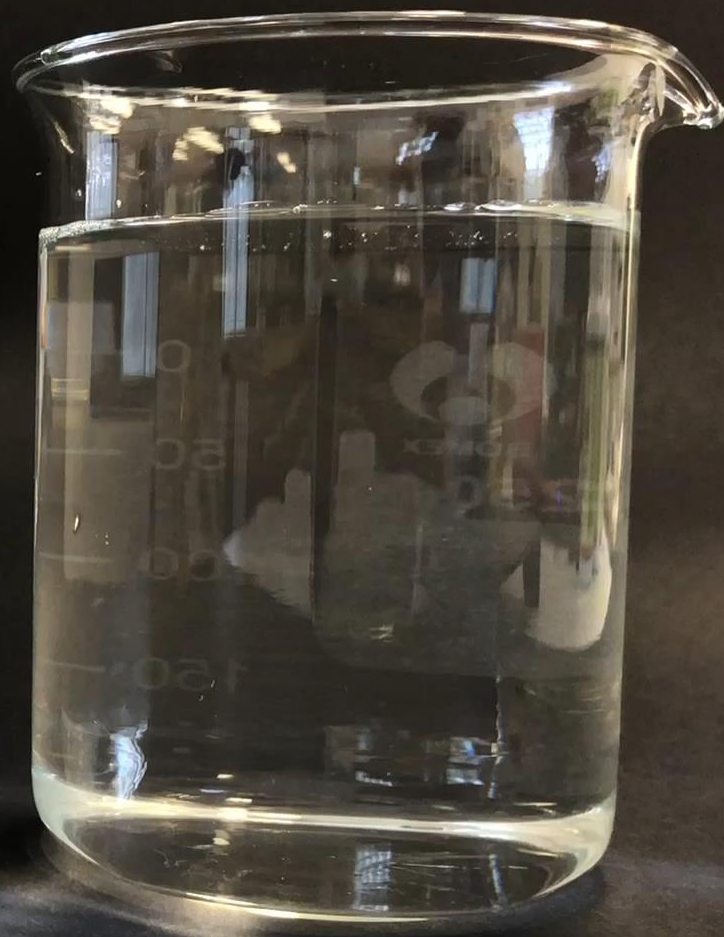
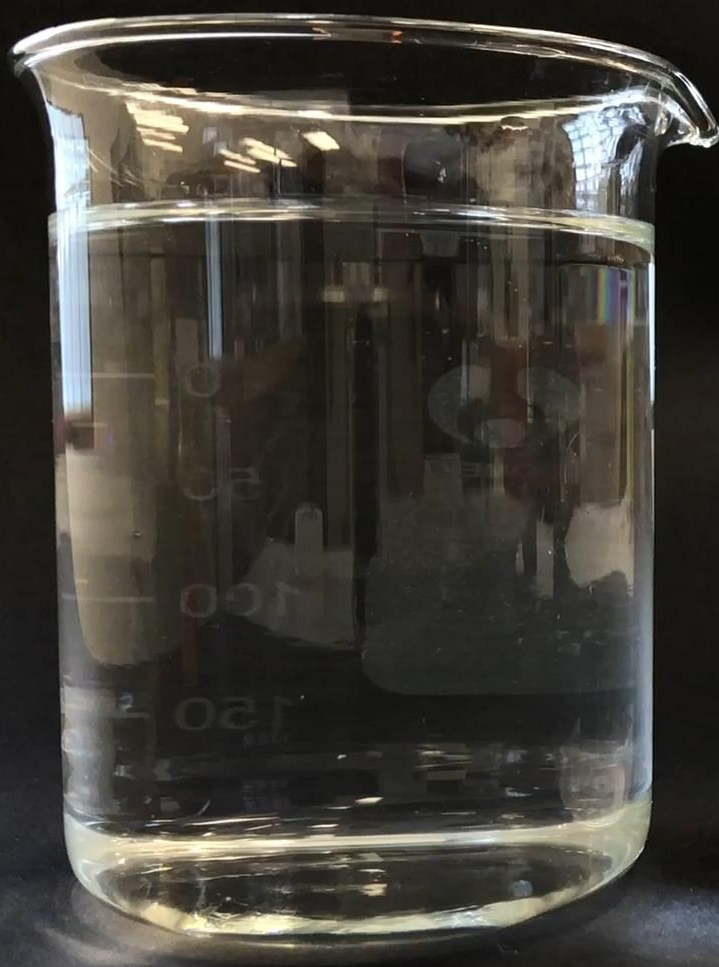
Primary particles



Agglomerate behaving as one single large particle



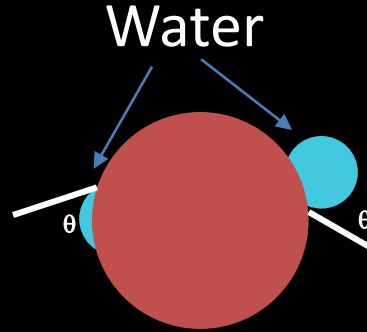
Scale is the same (10 microns) in both pictures



LipiSperse®

DISPERSION TECHNOLOGY

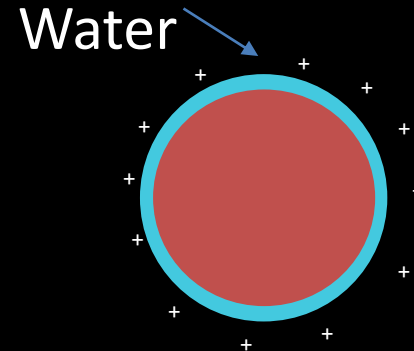
Small Contact Angle = Good Wetting



Large Contact Angle = Bad Wetting


With LipiSperse, surface tension is lowered, so water will adhere to particles

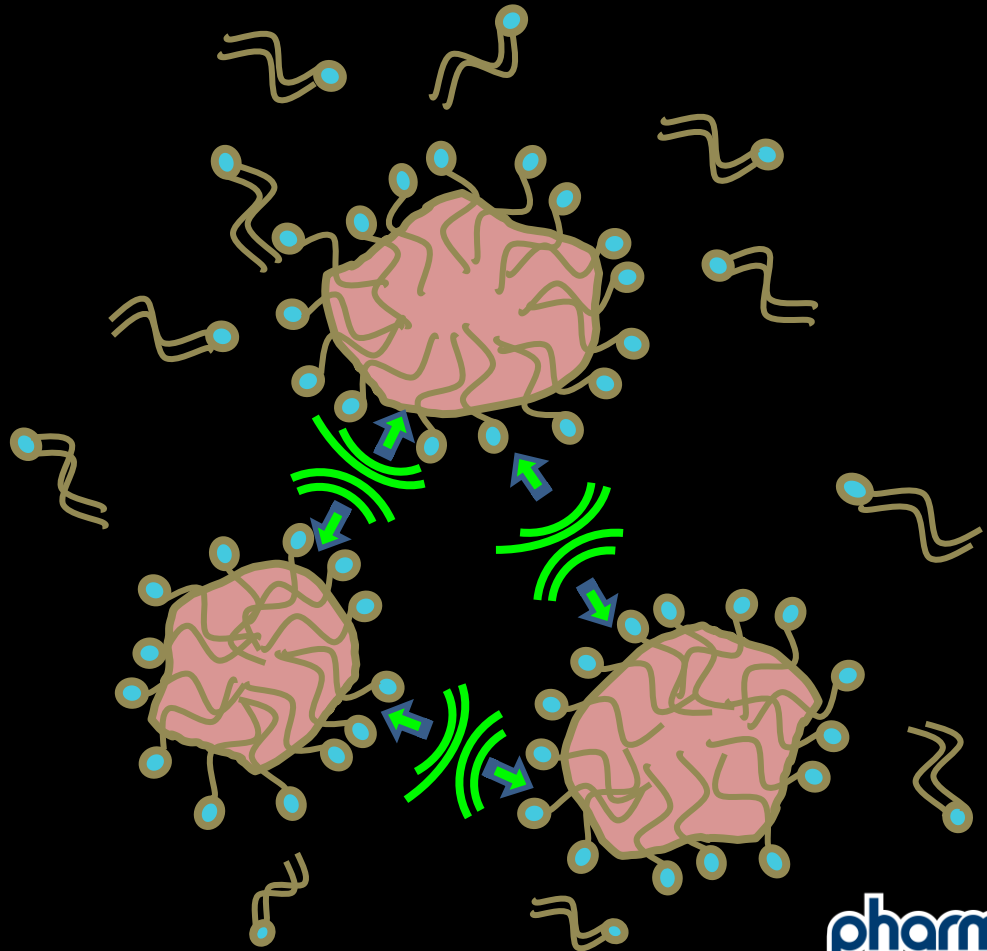
Goal is to allow water to engulf the lipophilic crystal

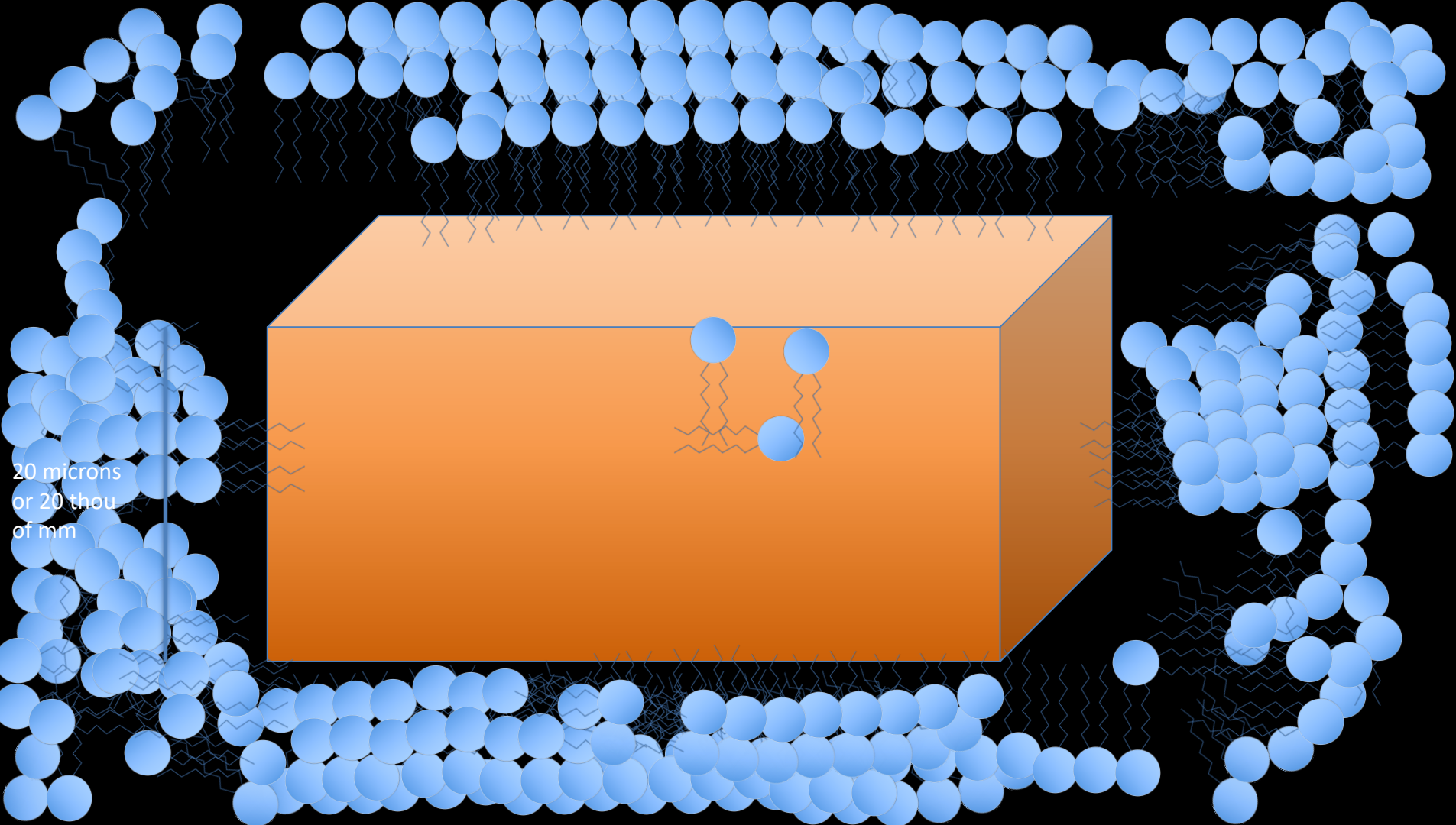


LipiSpense®

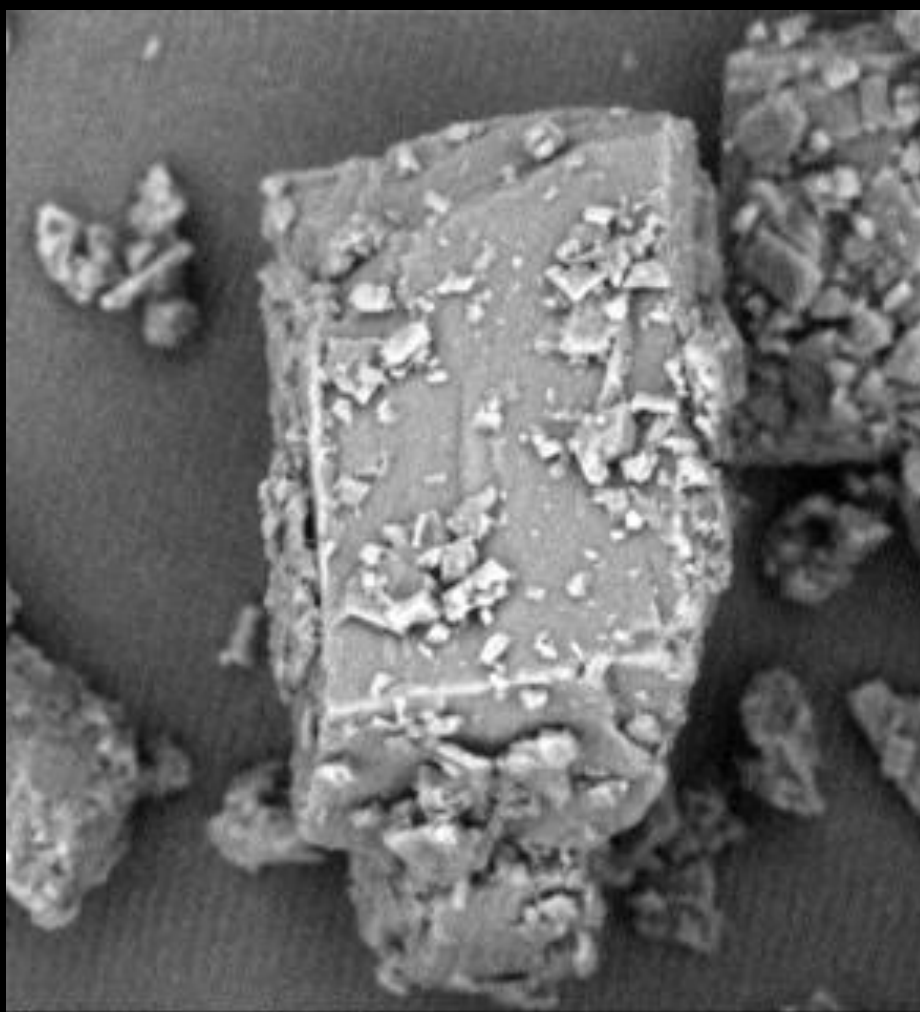
DISPERSION TECHNOLOGY

 Repulsive forces
between the
particles prevent
agglomeration or
aggregation:
allowing CWD
Powders to have
proper particle
dispersion

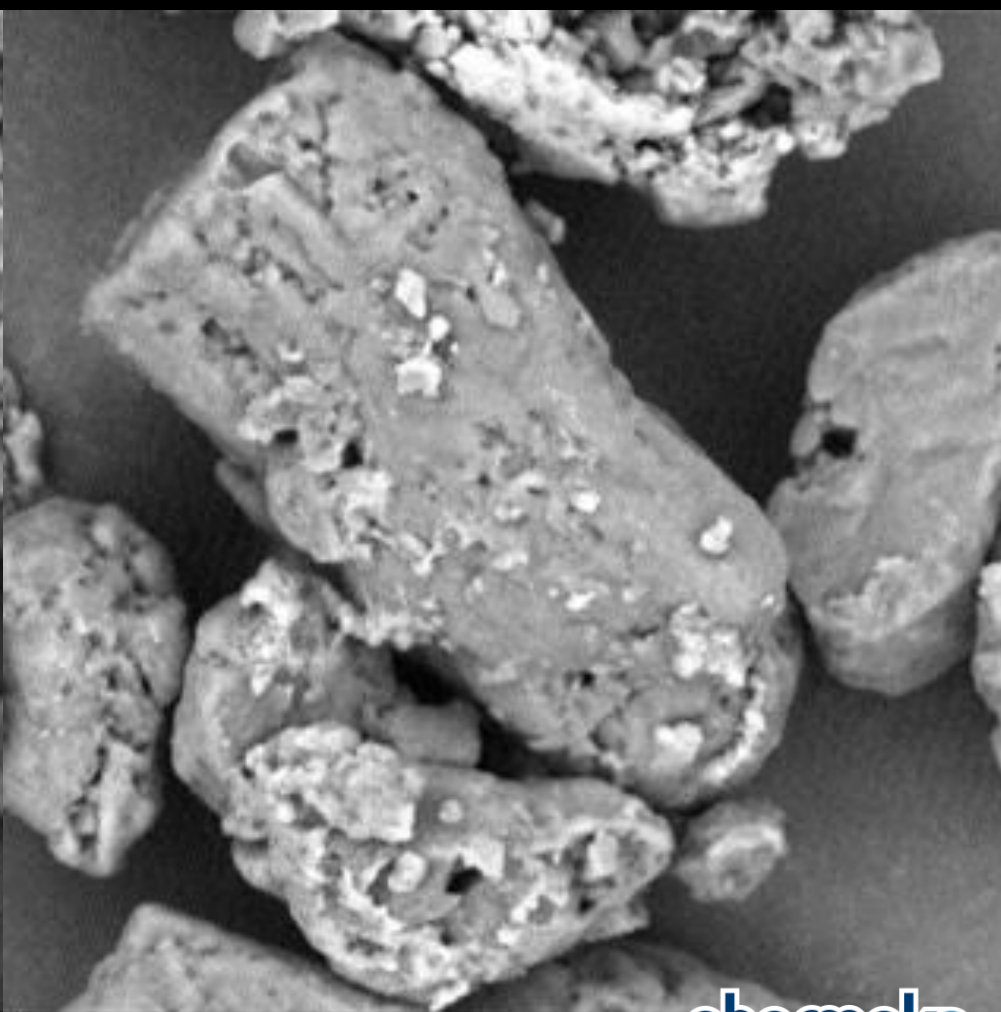




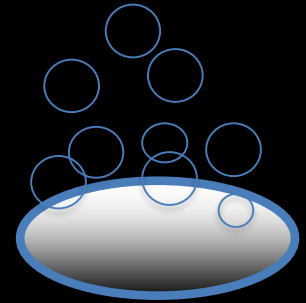
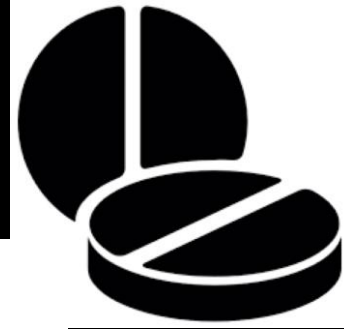
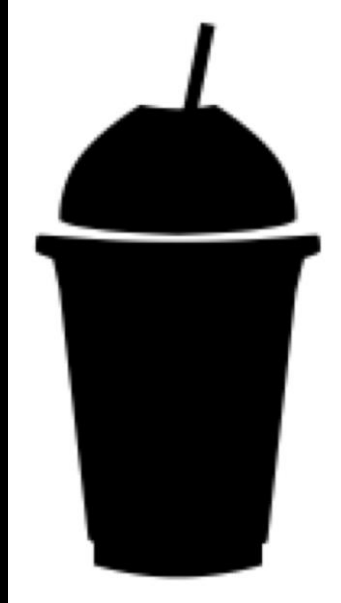
20 microns
or 20 thou
of mm



20 µm 3500x 10kV -Image NOV 16 20
76.7 µm BSD Full



20 µm 4000x 10kV -Image
67.1 µm BSD Full

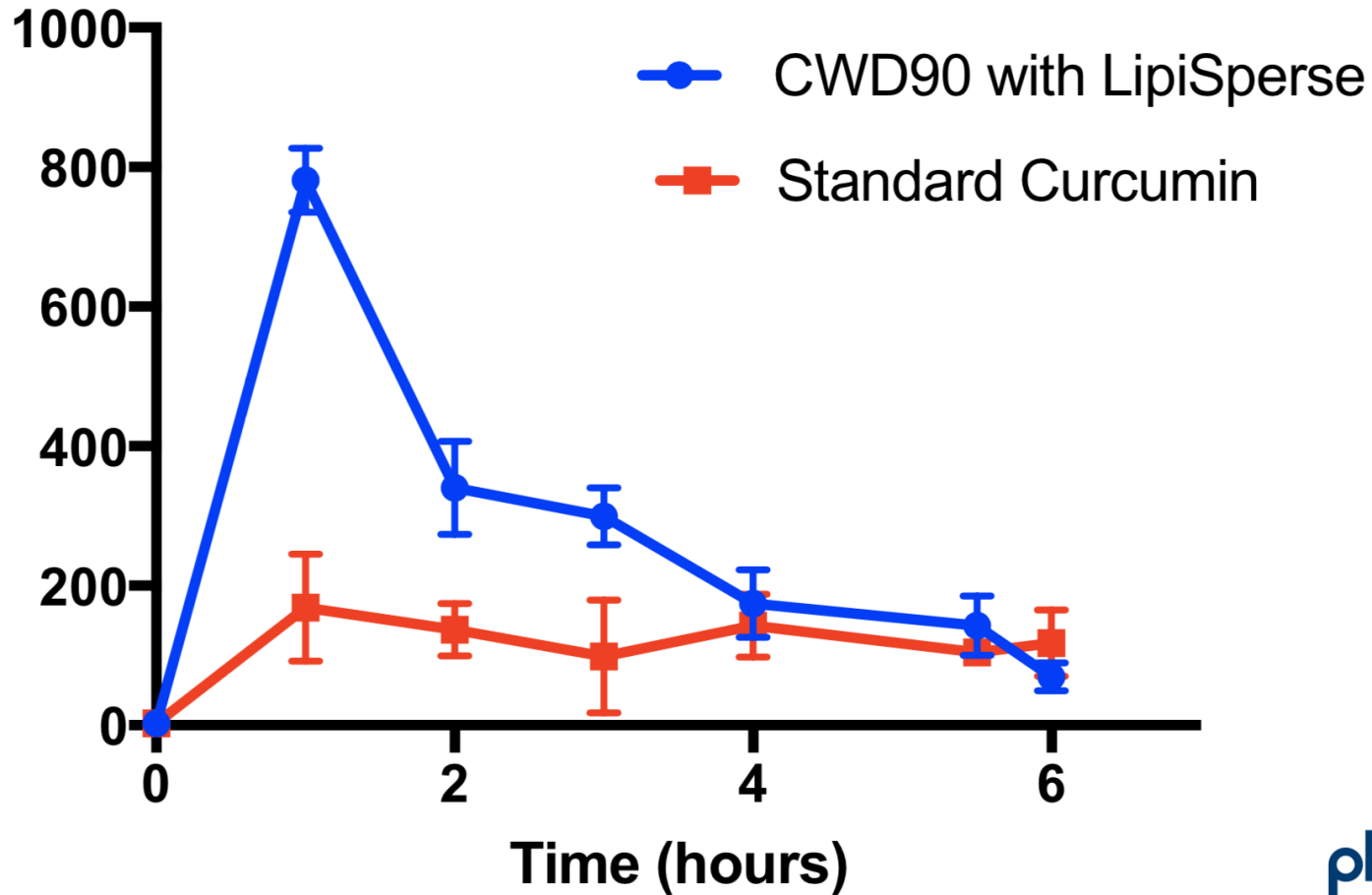


Pharmacokinetic Study

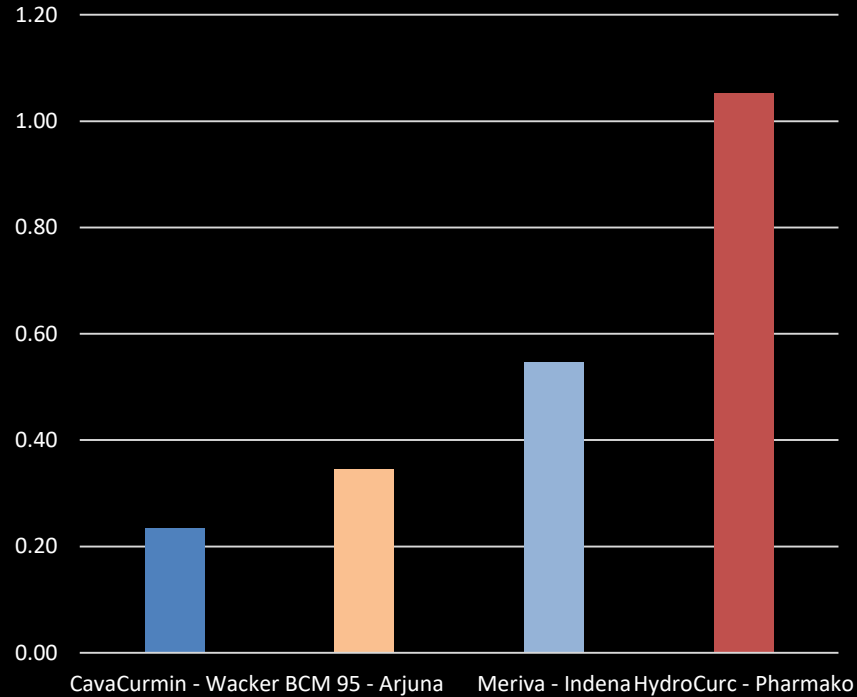
- 18 healthy male and female volunteers
- Single dose
- Randomised
- Double blinded study
- Crossover - Seven volunteers

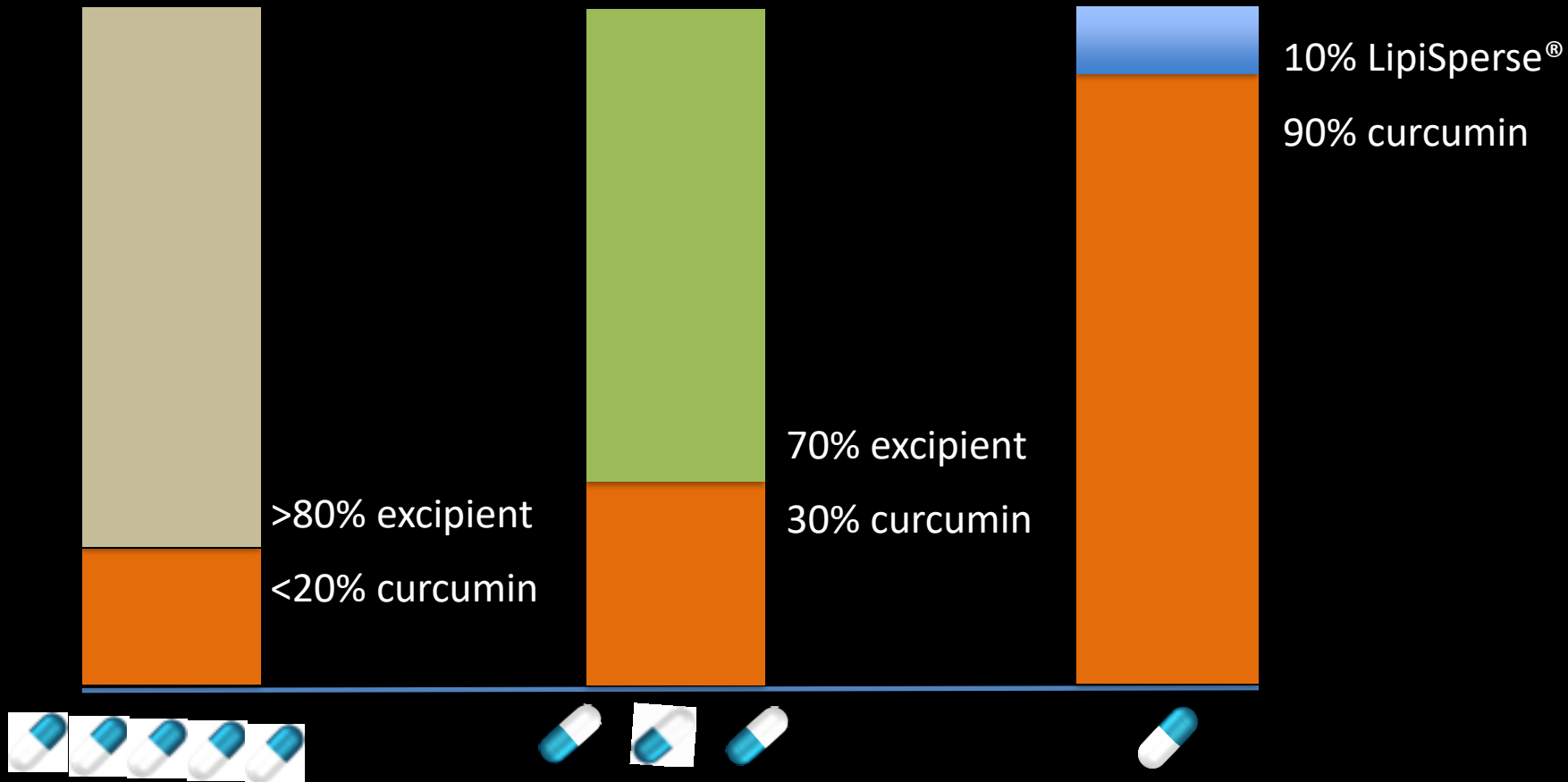
Plasma concentrations were determined at baseline and at regular intervals over a 24-hour period following curcuminoid ingestion.

Total Curcuminoids (parallel)



Plasma levels per mg of curcuminoids
ingested (based on published Cmax) (ng/ml)





Vitanatur



Vitanatur Cúrcuma Collagen Sport

Vitanatur Cúrcuma Collagen Sport es un complemento alimenticio a base de cúrcuma, colágeno hidrolizado, vitaminas A, C, D y E, magnesio, selenio y zinc especialmente indicado para personas que realizan actividad física de manera frecuente e intensa.

Código nacional: 185412.4



Presentación:

Bote metálico con 360g de polvo y con cacito dosificador de 12g.



Ingredientes Principales:

Cúrcuma, colágeno hidrolizado, vitaminas (A, C, D, E) y minerales (MG, Se, Zn).



Modo de empleo:

Disolver 1 dosificador (12 g) en 1 vaso de agua. Tomar 1 vez al día. Se recomienda tomar durante 2-3 meses. Descansar 1 mes y repetir en caso necesario.

YOUR DAILY AMMUNITION

THE WORLD'S MOST ADVANCED, BIOAVAILABLE SUPER
SUPPLEMENT, POWERED BY SCIENCE TO DELIVER ULTIMATE
WELLNESS.

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 > Nootropics > HydroCurc™ Curcumin Extract Powder



HydroCurc™ Curcumin Extract Powder

HydroCurc™ Cold Water Dispersable Extract

★★★★★

30 Grams

£35.95
tax incl.



Add to Bag

1



HydroCurc™ Curcumin Extract Powder

85% Curcuminoids. Cold Water Dispersable 25:1 Extract

