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**Micelle Science & Technology**



## Micellization Technology?

### Definition:

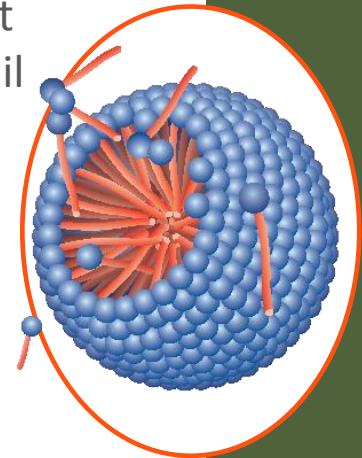
Micelle;

A micelle (Mizelle) or micella is an aggregate of surfactant molecules dispersed in a liquid colloid. A typical micelle in aqueous solution forms an aggregate with the hydrophilic "head" regions in contact with surrounding solvent, sequestering the hydrophobic single-tail regions in the micelle centre.

What is a Micelle?

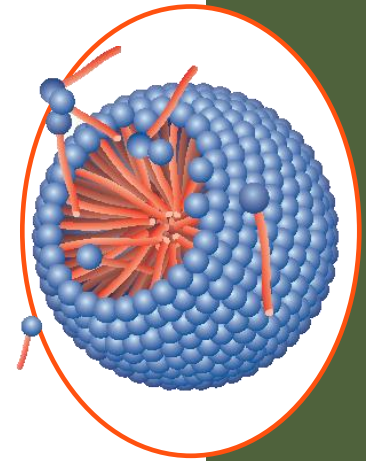
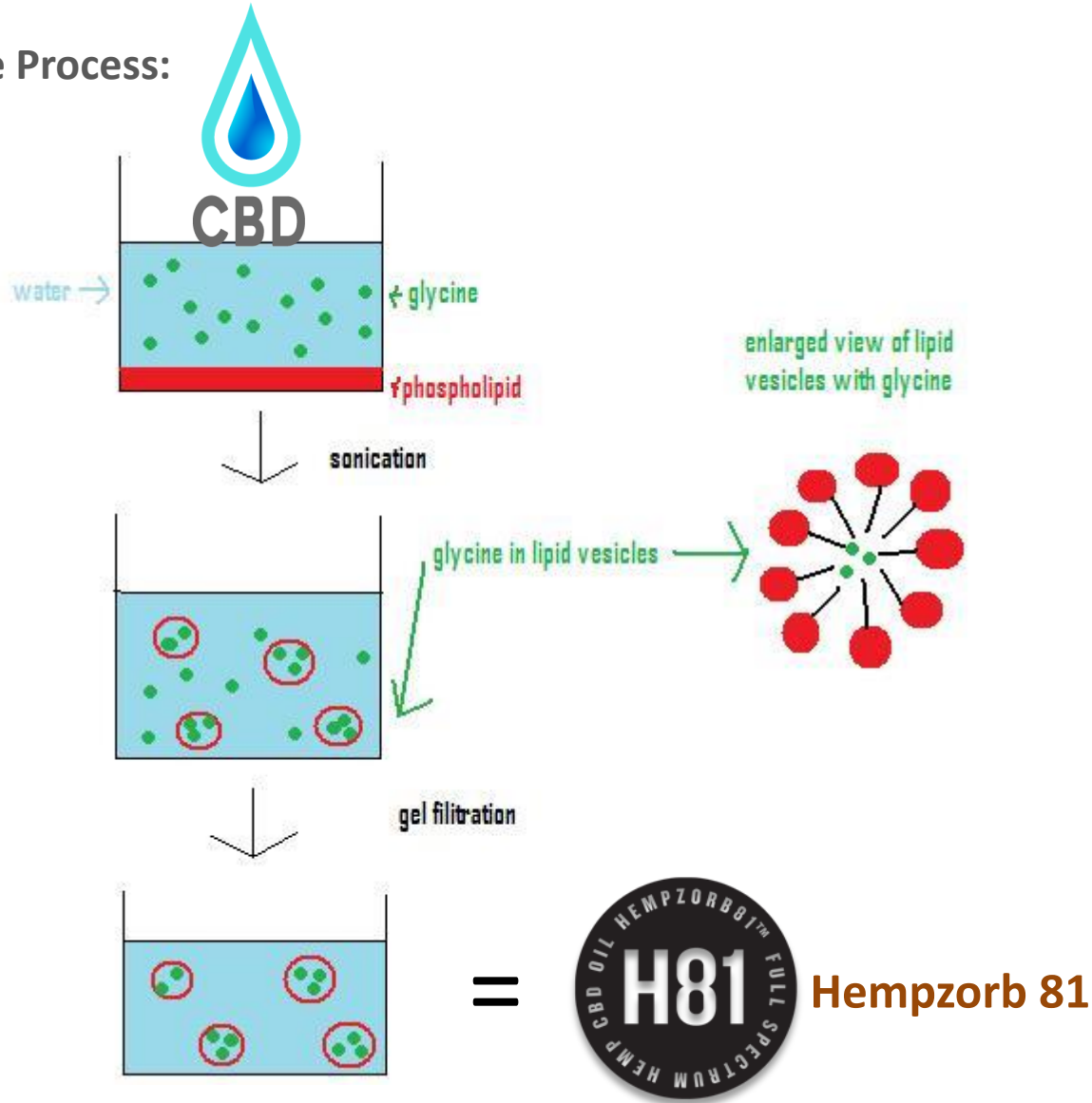


1:20 VIDEO



# Micellization Technology?

The Process:

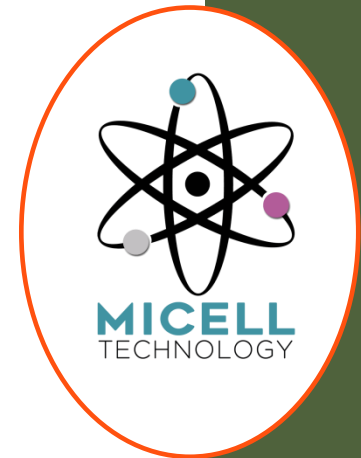


## The science behind Micellization Technology?

### What is a Micelle and how is it formed?

Micelles are lipid molecules that arrange themselves in a spherical form in aqueous solutions. The formation of a micelle is a response to the amphipathic nature of fatty acids, meaning that they contain both hydrophilic regions (polar head groups) as well as hydrophobic regions (the long hydrophobic chain).

Micellization is the technology and science behind taking an oil based product and their ingredients and making them bio-absorbable or “bioavailable” to the body, without changing their molecular form and structure. LifeLab’s proprietary Micell® Technology accomplishes this bioavailable process in the same way the human body does. In laboratory studies, Micell formulated, FSHO has demonstrated significantly more bioavailability than non-Micell, unformulated hemp based oils. This means that LifeLab’s FSHO, using Micell Technology is more effective, delivering better than 85% absorption to the body, GI tract and skin, with a quicker onset than that of traditional, lower dose, FSHO based, or Cannabidiol based products. [Article:](#)



## Is the Micelle science safe and compliant with regulatory requirements?

Yes, LifeLab's aerosol products incorporating Micelle technology are industry leading in quality, purity and Bioavailability. LifeLab's Full Spectrum Hemp Oil is US Farm Bill Compliant (Section 7606), meeting or exceeding FDA regulations, including THC content of less than 0.3%.

Every aerosol product receives a set of 3rd-party testing, including Certificates of Origin and Analysis, completed in 3-different phases during the process; from farm, to batch, to final production. Our tests include a separate analysis for the cannabinoid profile, potential microbial life, mold, heavy metals, residual solvents and pesticides, herbicides and insecticides. LifeLab's Micelle Technology leads the FSHO industry when it comes to the safety, quality and the bioavailability of our consumer products.





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