



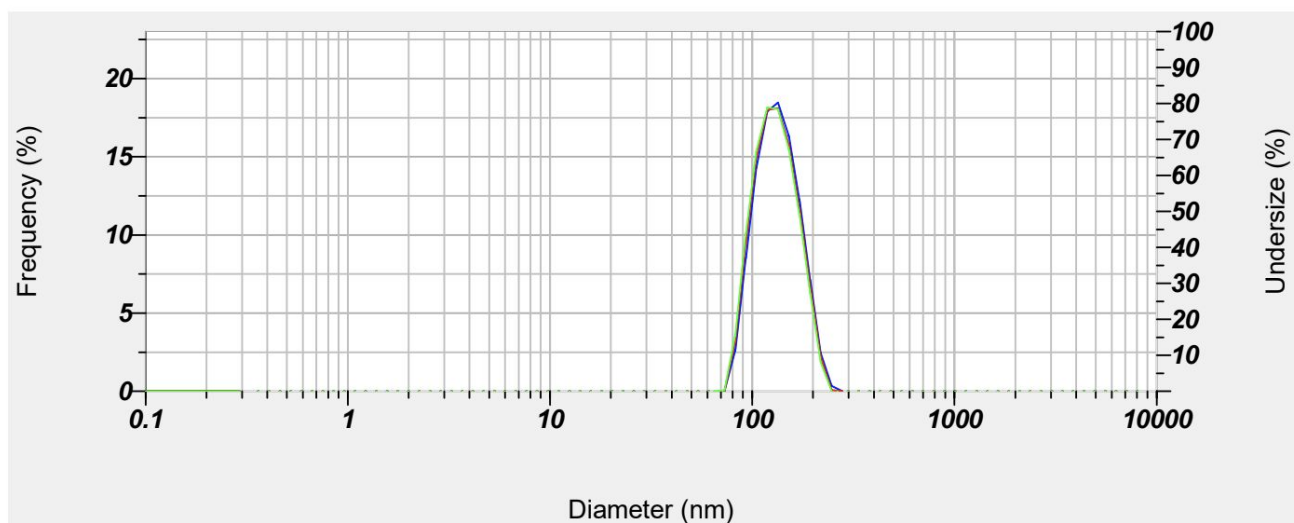
Bioavailability of Our Particles

Our lipid nanoparticles can deliver pure trans-resveratrol or any other chemical compound.

- Delivers them straight to cells by exponentially increasing the bioavailability of the encapsulated compounds.

1 mg of our encapsulated resveratrol is over 100,000 times more effective than 25 mg of resveratrol (current) taken orally.

- One pill of our 1mg resveratrol/mL nanoparticle (100 μ L of finished product) is over 3,000 times more effective than the entire 25 mg taken orally.



Particle Size Summary Results

Graph Type	File Name	Sample Name	Z-Average PI
	LNP-RV-0.5mg, 1mL_0089.nsz	LNP-RV-0.5mg:1mL	120.7 nm 0.178
	LNP-RV-0.5mg, 1mL_0090.nsz	LNP-RV-0.5mg:1mL	118.7 nm 0.179
	LNP-RV-0.5mg, 1mL_0091.nsz	LNP-RV-0.5mg:1mL	117.8 nm 0.184



Resveratrol Cancer Cell Data

Our Particle (10 uL): 75.5% viability only exposed to 3.3 ug of Trans-Resveratrol encapsulated in our particles.

Resveratrol (50 uL): 78.6% viability exposed to 50 ug of Trans-Resveratrol but not encapsulated in our Solid Lipid Nanoparticles. In addition, these solutions contained ethanol adding to a lower viability rate in comparison to our doses which are solely in PBS (Phosphate Buffered Saline).

Micronized Resveratrol (50 uL): 75.2% viability exposed to 50 ug of micronized Trans-Resveratrol but not encapsulated in our Solid Lipid Nanoparticles. In addition, these solutions contained ethanol adding to a lower viability rate in comparison to our doses which are solely in PBS.

Our encapsulated Resveratrol was as effective as more concentrated forms of current resveratrol.