



sphera

ENCAPSULATION

Innovators by vocation



What is new about SPHERAQ™



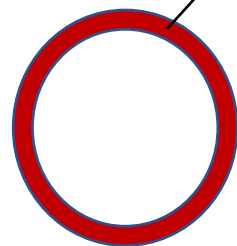
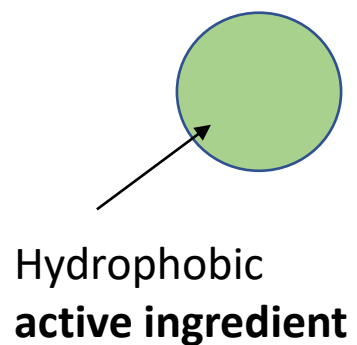
Size control (20 nm-10 μm), target release, bio-compatibility

The protein shell one of the strengths of SPHERAQ™ encapsulation system

- A) Composed of proteins chosen for their **nutritional value** (animal and vegetable sources);
- B) Vegetarian and vegans, Kosher and Halal;
- C) Can come from **by-products of the agri-food industry**;
- D) Proteins are active in **boosting the immune system**, reducing the risk of different types of diseases.

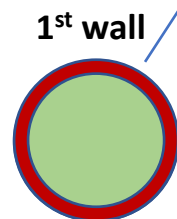


How it works?

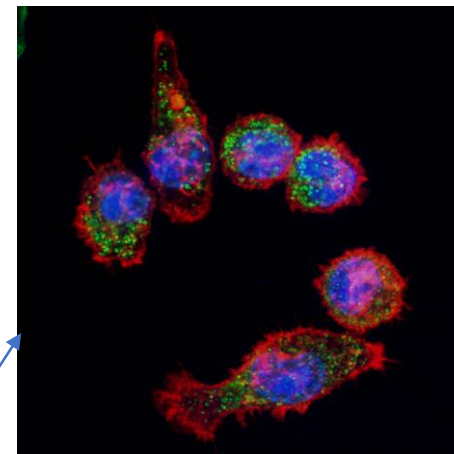


Encapsulant polymer:

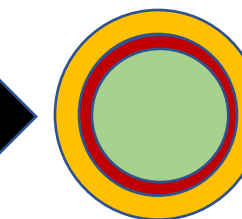
- Natural 100%
- Biodegradable



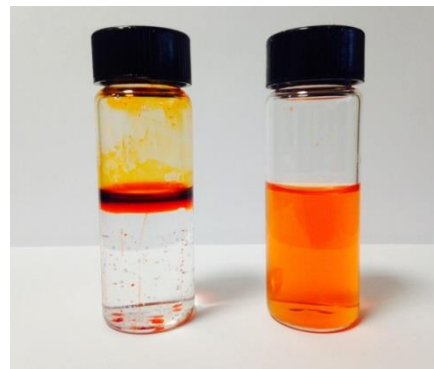
Encapsulated active ingredient



✓ Cellular uptake in human cell line



- ✓ Stability to acidic environment;
- ✓ Enhanced strength and resistance in respect to the one wall technology;
- ✓ Cationic charge



- ✓ 100% water soluble;
- ✓ Biocompatible;
- ✓ Enzyme and pH sensible;
- ✓ In powder, granules and liquid forms



A winning example- CURCUSHINE™

Nutraceuticals and food

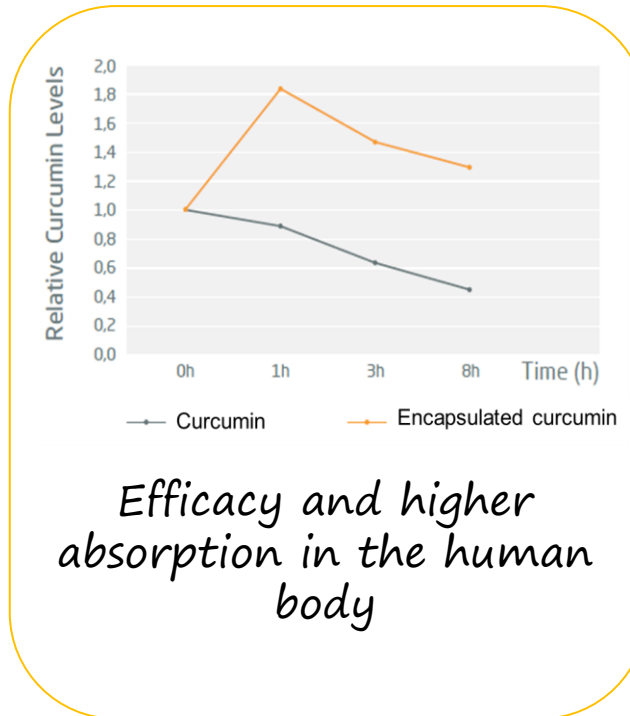
Tasks



Lipofoods™
Nutraceutical Ingredients



Solubility



Endless possibilities to add curcumin to food and beverages products

Fi Food ingredients Europe
Innovation Awards 19



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