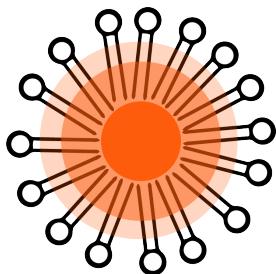


Curcumin SEFO

Self-Emulsifying
Formulated Oil





SEFO

Self Emulsifying Formulated Oil (SEFO) is an innovative technology developed by Sferalp's team, which allows lipid substances to be assembled in micelles already at stomach level and be transported directly to the lymphatic system.

Our Innovative Formulation

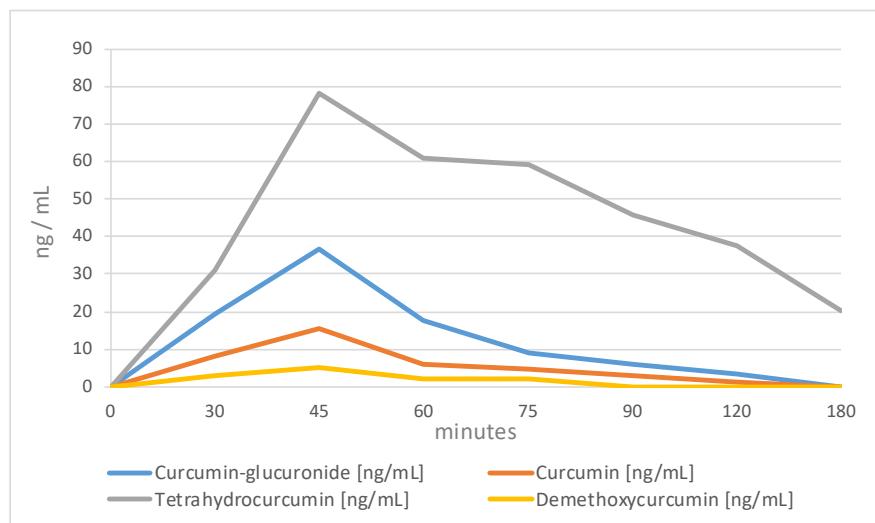
Curcumin SEFO is an oil formulation containing *Curcuma longa* extract. The formulation dissolves in water forming an emulsion capable of boosting the absorption of *Curcuma longa* extract. The formulation produces a micellar system in water with an average particle size distribution of less than 200 nm. Thanks to the SEFO technology curcuminoids are solubilized in water, thus improving their bioavailability. Preliminary *in vivo* human trials were performed confirming impressive plasma levels of curcumin glucuronides deriving from Sferalp's formulation.

COMPETITIVE ADVANTAGES

**Optimized absorption
Certified quality of ingredients and products
Complete traceability of production process**

Pharmacokinetic Preliminary Study

In vivo human plasma level of Curcuminoids after oral administration of 9.5 mg Curcuminoids (400 mg of Curcumin SEFO).



Compared to the unformulated extract [1], the AUC at 3h is **110 fold higher** for Curcumin SEFO without considering Tetrahydrocurcumin which is one of the main active metabolites [2].

[1] Cuomo J, Appendino G, Dern AS, Schneider E, McKinnon TP, Brown MJ, et al. Comparative absorption of a standardized curcuminoid mixture and its lecithin formulation. *J Nat Prod* 2011;74(4):664–9

[2] Pandey, A., Chaturvedi, M., Mishra, S., Kumar, P., Somvanshi, P., & Chaturvedi, R. (2020). Reductive metabolites of curcumin and their therapeutic effects. *Heliyon*, 6(11), e05469



Health Benefits

Turmeric is composed of natural polyphenols called curcuminoids of which curcumin is the main component. *Curcuma longa* has been used traditionally in Asian countries for its antioxidant, anti-inflammatory, antibiotic, and anticancer properties. Curcumin has been shown to benefit inflammatory conditions, metabolic syndrome, pain, and also aids in the management of eye inflammatory conditions.

Sferalp's Available Product: **Curcumin SEFO**

Appearance	Oily orange transparent solution
Active Content	2.14 mg Curcuminoids / 100 mg oil
Recommended daily dose	200 mg oil (4.28 mg Curcuminoids)
Recommended application	Soft & hard capsules
MOQ	250 Kg
Composition	Polyoxyethylene (20) sorbitan monooleate, Medium-chain triglycerides, Polyglyceryl 3-dioleate, Turmeric extract, D-alpha-tocopherol
Product Code	PN08

Contact us to learn more about our formulations and the way we can help you to develop your food supplement idea.

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