



Mangosteen Extract – Technical Data Sheet (10% Alpha-Mangostin)

INCI Name	Garcinia Mangostana Fruit Extract
Botanical Source	Garcinia mangostana L. – Fruit
Specification	10% Alpha-Mangostin (HPLC)
Physical Form	Red-brown to dark purple fine powder
Smell	Characteristic fruity, slightly bitter
Solubility in Water	~2–4 g/L at 50–60 °C with stirring
Solubility in Oil	Slight solubility in ethanol or surfactant-rich systems
Recommended Solubilization Method	<ul style="list-style-type: none">- Disperse in warm water or hydroalcoholic base (~50 °C)- Stir thoroughly for 5–10 minutes- Add solubilizer or emulsifier if needed
Cosmetic Functions	Antioxidant, skin conditioning, brightening
Recommended Use Level	0.2–1% (in emulsions or aqueous base)
Preservation/Handling	Keep tightly sealed in a dry, cool, and dark place
Shelf Life	24 months in original unopened packaging
Toxicity Criteria	
NOAEL	800 mg/kg bw/day (oral, rat, α -mangostin extract)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No genotoxicity observed in vitro and in vivo tests