



Lemon Extract – Technical Data Sheet (5% Eriocitrin)

INCI Name	Citrus Limon Fruit Extract
Botanical Source	Citrus limon (L.) Burm. f. – Fruit
Specification	5% Eriocitrin (HPLC)
Physical Form	Light yellow to yellow-brown powder
Smell	Characteristic fresh citrus aroma
Solubility in Water	~5–10 g/L at 45–60 °C with stirring
Solubility in Oil	Insoluble
Recommended Solubilization Method	<ul style="list-style-type: none">- Disperse in warm water (~50 °C)- Stir for 5–10 minutes with gentle agitation- Filter if necessary to clarify
Cosmetic Functions	Antioxidant, skin conditioning, refreshing
Recommended Use Level	0.5–1.5% (in water phase)
Preservation/Handling	Store tightly closed in a cool, dry place protected from light
Shelf Life	24 months in unopened packaging under proper storage conditions
Toxicity Criteria	
NOAEL	1000 mg/kg bw/day (oral, rat, eriocitrin extract)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No mutagenic effects reported in vitro or in vivo