



## Epimedium Extract – Technical Data Sheet (10% Icariin)

<b>INCI Name</b>	Epimedium Brevicornum Extract
<b>Botanical Source</b>	Epimedium brevicornum Maxim. – Whole herb
<b>Specification</b>	10% Icariin (HPLC)
<b>Physical Form</b>	Yellowish to brown fine powder
<b>Smell</b>	Herbal, slightly bitter odor
<b>Solubility in Water</b>	~2–4 g/L at 50 °C with stirring
<b>Solubility in Oil</b>	Insoluble
<b>Recommended Solubilization Method</b>	<ul style="list-style-type: none"><li>- Dissolve in warm water (~50–60 °C)</li><li>- Stir for 5–10 minutes</li><li>- Use fine filtration to remove residual insolubles</li></ul>
<b>Cosmetic Functions</b>	Skin conditioning, antioxidant, tonic
<b>Recommended Use Level</b>	0.5–2% (in water phase)
<b>Preservation/Handling</b>	Store in a sealed container in a dry, cool, and dark place
<b>Shelf Life</b>	24 months if stored properly in unopened packaging
<b>Toxicity Criteria</b>	
NOAEL	1000 mg/kg bw/day (oral, rat study)
LD50	>2000 mg/kg bw (oral, rat, icariin-rich extract)
Genotoxicity	No mutagenic effects observed in vitro and in vivo