



## Soybean Extract – Technical Data Sheet (40% Isoflavones, 2% Genistein)

<b>INCI Name</b>	Glycine Max Extract
<b>Botanical Source</b>	Glycine max (L.) Merr. – Fruit
<b>Specification</b>	40% Isoflavones, thereof 2% Genistein (HPLC)
<b>Physical Form</b>	Light yellow to beige fine powder
<b>Smell</b>	Neutral to slightly bean-like odor
<b>Solubility in Water</b>	~5–10 g/L at 50 °C with stirring
<b>Solubility in Oil</b>	Practically insoluble
<b>Recommended Solubilization Method</b>	<ul style="list-style-type: none"><li>- Disperse in warm water (~50 °C)</li><li>- Stir for 5–10 minutes</li><li>- Use filtration if needed to clarify</li></ul>
<b>Cosmetic Functions</b>	Skin conditioning, antioxidant, soothing
<b>Recommended Use Level</b>	0.5–1.5% (in water phase)
<b>Preservation/Handling</b>	Keep tightly closed in a cool, dry, and dark place
<b>Shelf Life</b>	24 months in sealed original packaging under proper conditions
<b>Toxicity Criteria</b>	
NOAEL	500 mg/kg bw/day (oral, rat, isoflavone-rich extract)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No mutagenic effects observed in standard in vitro and in vivo tests