



Polygonum Cuspidatum Extract – Technical Data Sheet (98% Resveratrol)

INCI Name	Polygonum Cuspidatum Root Extract
Botanical Source	Reynoutria japonica L. – Root
Specification	98% Resveratrol (HPLC)
Physical Form	White to off-white fine powder
Smell	Neutral, slightly earthy
Solubility in Water	~2–5 g/L at 50 °C with stirring
Solubility in Oil	Slight solubility in ethanol or emulsifier-based systems
Recommended Solubilization Method	<ul style="list-style-type: none">- Dissolve in warm hydroalcoholic base or with solubilizer- Stir gently for 5–10 minutes- Use emulsifier for aqueous formulations
Cosmetic Functions	Antioxidant, skin conditioning, brightening
Recommended Use Level	0.1–1% (depending on formulation)
Preservation/Handling	Store in cool, dry, sealed containers protected from light
Shelf Life	24 months in unopened original packaging
Toxicity Criteria	
NOAEL	600 mg/kg bw/day (oral, rat, resveratrol extract)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No genotoxicity observed in standard toxicological studies