



Astragalus Membranaceus Root Extract – Technical Data Sheet (5% Astragaloside IV)

INCI Name	Astragalus Membranaceus Root Extract
Botanical Source	Astragalus membranaceus – Root
Specification	5% Astragaloside IV (HPLC)
Physical Form	Yellow-brown fine powder
Smell	Mild, sweet, earthy odor
Solubility in Water	~3–6 g/L at 50 °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 using magnetic or high-shear mixer- Filter if needed to remove insolubles
Cosmetic Functions	Skin conditioning, antioxidant
Recommended Use Level	0.5–2% (in water phase)
Preservation/Handling	Store in a cool, dry, well-sealed container away from light
Shelf Life	24 months unopened under recommended conditions
Toxicity Criteria	
NOAEL	5000 mg/kg bw/day (oral, rat, aboveground extract)
LD50	>5000 mg/kg bw (oral, rat, root extract)
Genotoxicity	No mutagenicity or clastogenicity observed in studies