

Iscaguard IAF

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural
✓	✓	✓	✓	✓

INCI declaration
aqua, lactic acid, propanediol, citric acid, tartaric acid, gluconic acid

Iscaguard IAF is an aqueous blend of naturally occurring fruit acids, suitable for preserving both rinse-off and leave-on products. It has a broad spectrum of activity and is effective against bacteria, yeast, mould and fungi. The preservative also contains naturally sourced, GMO free Propanediol which provides improved skin moisturisation characteristics, in addition to boosting the efficacy of the preservative. Iscaguard IAF is therefore the perfect choice of preservative for skin friendly formulations.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.5 – 1.5 %	Not regulated (Annex V)
Rinse-off	0.5 – 1.5 %	Not regulated (Annex V)

In use concentrations vary according to the formulation type and other ingredients present. The correct use dosage should be determined by microbial challenge testing of the finished formulation (ISCA UK offers discounted challenge testing to our customers).

Recommended Applications

Shampoo, Shower gel (Rinse-off)	Creams, lotions (Leave-on)	O/W emulsions	W/O emulsions	Wet wipes	Eye care	Lip Care	Oral care	Children under 3
•	•	•	•	•	•	•	•	•

Use scenarios derived from evaluation of Cosmetic Regulation guidelines and preservative performance for typical formulations.

Formulation guidelines	
pH (effective range)	2.0 – 6.5
Solubility (Water)	Fully soluble
Solubility (Glycols)	Fully soluble
Maximum Process Temperature	80 °C (avoid prolonged periods at high temperature)
General information	Iscaguard IAF is compatible with most personal care ingredients. It is suitable for use in formulations with acidic pH values, but will lose efficacy as the pH approaches 7.0.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.1
Escherichia coli	0.2
Bacteria (gram-positive)	
Staphylococcus aureus	0.2

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.3
Moulds	
Aspergillus brasiliensis	0.3


Physical Properties (approximate)	
Appearance	Clear to light yellow liquid
Odour	Mild acidic odour
Density	1.16 gcm ⁻³
pH value	< 2.0

Physical Properties (approximate)	
Solubility in water	Fully soluble
Solubility in glycols	Fully soluble
VOC content	0 %

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
	IMDG
UN number	-
UN proper shipping name	Not dangerous goods
Transport hazard class	-
Packing group	-
Environmental hazards	-

Hazard classification/labelling	
Hazard pictograms	
Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage.