Iscaguard IAF

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

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

Iscaguard IAF is an aqueous blend of naturally derived 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, and mould. 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 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.

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Registered No: 3500179

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Formulation guidelines	
pH (effective range)	2.0 – 5.5
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

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