

Iscaguard BOA

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

INCI declaration
benzyl alcohol, dehydroacetic acid, benzoic acid, sorbic acid

Iscaguard BOA is a blend of organic acids in benzyl alcohol. It is suitable for formulations with acidic pH, offering protection against bacteria, yeasts, and moulds. Iscaguard BOA is permitted for use with most Eco labels, and can be used for both leave-on and rinse-off products. It also has the added benefit of headspace protection due to the presence of the benzyl alcohol.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.5 – 1.0 %	1.23 % #
Rinse-off	0.5 – 1.0 %	1.23 % #

Not to be used in aerosol dispensers (sprays)

In use concentrations vary according to the formulation type and the 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)	Hair care	Deodorants	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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Formulation guidelines	
pH (effective range)	3.0 – 6.5
Solubility (Water)	~1.0 %
Solubility (Glycols)	Soluble
Maximum Process Temperature	40 °C
General information	<p>Iscaguard BOA is compatible with most personal care ingredients. In aqueous formulations, heating to 40°C may be required in order to fully dissolve the preservative. However, prolonged exposure to high temperatures should be avoided in order to protect against discolouration. Iscaguard BOA works effectively at pH values below 6.5, though for optimal efficacy we recommend that the pH of the finished product is less than 6.</p> <p>Iscaguard BOA is not to be used in aerosol dispensers (sprays) in accordance with the EU the Cosmetic Regulation.</p>

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.30
Escherichia coli	0.40
Bacteria (gram-positive)	
Staphylococcus aureus	0.30

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.40
Moulds	
Aspergillus brasiliensis	0.25

Disclaimer: The information contained in this document is intended to be of assistance to users. We believe the information set forth above to be true and accurate, but such information is provided without any warranty, and shall establish no legal duty or responsibility on the part of Isca UK Ltd.

