

Iscaguard MPB

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural
No	Yes	Yes	No	No

INCI declaration
Phenoxyethanol, methylparaben, propylparaben, 2-bromo-2-nitropropane-1,3-diol

Iscaguard MPB is a blend of paraben esters and bronopol in phenoxyethanol. With very high efficacy, a broad spectrum of activity and wide pH use range, Iscaguard MPB is a cost effective option to preserve many types of personal care formulations.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.3 – 0.8 %	1.33 %
Rinse-off	0.3 – 0.8 %	1.33 %

Not to be used in leave-on products designed for application on the nappy area of children under 3 years of age. Leave-on products designed for children under 3 years of age must be labelled “Do not use on the nappy area”.

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)	3 – 9
Solubility (Water)	~0.5 %
Solubility (Glycols)	Miscible
Solubility (Glycerin)	10 %
Maximum Process Temperature	40 °C
General information	<p>Iscaguard MPB is soluble in water to approximately 0.5%. Heating to 40°C may be required, however, in order to dissolve the product more rapidly in aqueous solutions. Alternatively, Iscaguard® MPB may be pre-dissolved in one of the other formulation components, e.g. surfactant or organic solvent. Iscaguard MPB should be added during the cooling stage (below 40°C, where possible) of hot processes to avoid preservative loss.</p> <p>Amines have the potential to form nitrosamines in products, and the presence of bronopol may increase this potential. It is recommended that Iscaguard MPB is not used in formulations containing amines.</p>

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.32
Escherichia coli	0.32
Proteus vulgaris	0.24
Bacteria (gram-positive)	
Staphylococcus aureus	0.21
Bacillus cerus	0.21
Enterococcus faecium	0.21

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.12
Saccharomyces cerevisiae	0.11
Moulds	
Aspergillus niger	0.14

Physical Properties (approximate)	
Appearance	Clear to light yellow liquid
Odour	Faint
Solubility in glycerin	~ 10 %

Physical Properties (approximate)	
Solubility in water	# 0.5 %
Solubility in glycols	Miscible