

# Aevum Vita LV10

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Ecolabel Compliant
✓	✓	✓		✓

INCI declaration
aqua, sodium levulinate, potassium sorbate

Aevum Vita LV10 is a multifunctional additive for cosmetics, containing sodium levulinate - a naturally derived ingredient. Aevum Vita LV10 can provide formulations with excellent skin conditioning properties, and well as improved application characteristics. Additionally, Aevum Vita LV10 can be used for its antimicrobial activity, to preserve rinse-off formulations, or to reduce the level of preservative required in leave-on formulations.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	1 - 2 %	8 %
Rinse-off	1 - 2 %	8 %

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.

# Aevum Vita LV10

## Formulation guidelines

pH range 5.5 max

Solubility (Water) Miscible

Solubility (Glycols) Miscible

Process Temperature 60 °C

### General information

The multifunctional properties of Aevum Vita 406 require acidic conditions for their effect, and we recommend a maximum pH value of approximately 5.5.

In particular, the preservative efficacy of Aevum Vita LV10 increases as the pH of the formulation decreases.

Aevum Vita LV10 is completely soluble in water, and we recommend adding it as the last ingredient of the formulation, when the batch has cooled below 60 °C.

### Minimum Inhibitory Concentrations (pH = 5.0)

Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.5
Escherichia coli	0.5
Bacteria (gram-positive)	
Staphylococcus aureus	0.5
Klebsiella pneumoniae	0.5

### Minimum Inhibitory Concentrations (pH = 5.5)

Microorganism	MIC (%)
Yeasts	
Candida albicans	1.5
Moulds	
Aspergillus brasiliensis	2.0

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