

# PENTAVITIN®

## Scalp Active

<b>Characterization</b>	PENTAVITIN® is 100% natural and plant-derived with both ECOCERT approval and NATRUE certification. The unique Saccharide Isomerate (active) is formed by isomerisation of plant-derived D-glucose. It is suitable for both skin and hair care applications. PENTAVITIN® does not contain preservatives and is free of specified pathogen.
<b>INCI name</b>	Saccharide Isomerate (active), aqua, citric acid, sodium citrate
<b>General Properties</b>	Appearance: clear, slightly viscous liquid Colour: yellowish to slightly amber pH as supplied: 4.0 - 5.0 Residue on drying: 52 - 55 % m/m
<b>Typical Applications</b>	PENTAVITIN® is a soothing active for dry and itchy scalp that effectively works in rinse-off applications. It can be used various hair care applications such as shampoos, conditioners, treatment and colorants.
<b>Prime Functions</b>	Soothing active for deep hydration
<b>Formulating</b>	Easy to formulate <ul style="list-style-type: none"><li>▪ 100% water soluble and incorporated into the water phase</li><li>▪ Processed either warm (&lt; 60° C) or cold. However, recommendation is to formulate</li></ul> PENTAVITIN® cold or add at the end of formulation process together with preservatives <ul style="list-style-type: none"><li>▪ Stable in a recommended pH-range from 3 - 6.5</li><li>▪ Compatible with ethanol up to 60%</li></ul> <p><b>ATTENTION:</b> In case of using amines (e.g. triethanolamine, aminomethyl propanol) for pH adjustment and increased temperature you risk a Maillard reaction with PENTAVITIN®. Therefore we recommend adding PENTAVITIN® at the end of the formulation process.</p>
<b>Approx. Use Level</b>	Recommended use level for shampoo / conditioner 0.2% and 0.5% in treatments