

Product Information

Product Data Sheet

PENTAVITIN®

Description

PENTAVITIN® is 100% natural and plant-derived. The Saccharide Isomerate is formed by isomerisation of plant-derived D-glucose and is similar to that of the carbohydrate complex found in human skin. It is suitable for both skin- and hair care applications.

PENTAVITIN® is ECOCERT- and COSMOS approved, as well as NATRUE certified.

Product identification

Product code: 50 3315 2

Composition

INCI name	Content	CAS No.	EINECS/ELINCS
Saccharide Isomerate	> 50%	100843-69-4	none
Aqua	25-50%	7732-18-5	231-791-2
Citric Acid	0.1-1%	77-92-9	201-069-1
Sodium Citrate	0.1-1%	68-04-2	200-675-3

The two main components of the Saccharide Isomerate are glucose (CAS No. 50-99-7, EINECS No. 200-075-1) and fructose (CAS No. 57-48-7, EINECS No. 200-333-3).

Specifications

Appearance:	clear, yellowish to slightly amber coloured, slightly viscous liquid
pH:	4.0 - 5.0
Residue on drying:	52.0 - 55.0 % m/m
Relative density d ₂₀ /20:	1.240 - 1.255
Refractive index n ₂₅ :	1.422 - 1.430
Identity by Infrared spectrum:	corresponds to reference spectrum
Total aerobic mesophile plate count:	< 100 CFU / ml
Specified microorganisms:	not detectable in one milliliter

Solubility

PENTAVITIN® is soluble in water.

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Stability and storage

PENTAVITIN® may be stored for at least 36 months from the date of manufacture in the unopened original container protected from light in a clean place and at a temperature between 15 and 25°C. The 'Best use before' date is printed on the label. Keep package tightly closed. Once opened, use contents quickly. In order to avoid secondary microbial contamination, following opening, containers should be handled with special care.

Uses

PENTAVITIN® is an ingredient for personal care products. PENTAVITIN® can be processed either warm (< 60°C) or cold, and should be incorporated into the aqueous phase of a cosmetic formulation. For skin care preparations, the addition of 1 to 5% PENTAVITIN® is recommended and for hair applications we recommend 0.2% in shampoo and 0.5% in conditioner/treatments.

Certifications

ECOCERT

PENTAVITIN® is approved by Ecocert Greenlife according to the Ecocert Standard for Natural and Organic Cosmetics available at <http://cosmetics.ecocert.com>.

100% Natural origin, 0% Synthetic origin

COSMOS

PENTAVITIN® is approved by Ecocert Greenlife according to the Cosmos Standard available at <http://cosmos.ecocert.com>.

100% Natural origin, 67.1% CPAI (Chemically Processed Agro-Ingredient)

NATRUE

PENTAVITIN® complies with the NATRUE criteria

2% Natural (0% Organic), 48% Water, 50% Derived Natural, 0% Nature-identical

Safety

This product is safe for the intended use. Avoid ingestion or direct contact by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective DSM Material Safety Data Sheet.

Legal notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

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Additional information

To find out more about our ingredients, please contact your nearest DSM Nutritional Products office.

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