



## Certificate of Analysis

Product Name	Pentavitin		
INCI Name:	SACCHARIDE ISOMERATE		
CAS	100843-69-4		
EINECS	000-000-0		
Batch Number	20260605	Manufacture Date	20260605
Report Date	20260605		

Items Tested	Specifications	Results	Test Method
<b>Physical and Chemical Analysis</b>			
Appearance	clear, yellowish to slightly amber coloured, slightly viscous liquid	Complies	Organoleptic examination
pH	4.0-5.0	4.4	pH Meter
Residue on drying	52.0-55.0 % m/m	53.0 % m/m	Gravimetry
Relative density	1.240- 1.255	1.247	Densimeter
Refractive index	1.422- 1.430	1.424	Refractometer
Identity by FT-IR	corresponds to reference spectrum	corresponds	FT-IR
TAMC	≤ 100 CFU/ml	corresponds	Microbiological Assay
TYMC	≤100 CFU/ml	corresponds	Microbiological Assay
Specified microorganisms	absence in one milliliter	corresponds	Microbiological Assay
<b>Physical Characteristics</b>			
Loss on Drying	≤ 5.00%	3.64%	USP <731> / Ph.Eur. 2.2.32
Total ash	≤ 5.00%	2.84%	USP<561>
<b>Heavy Metals (ICP-MS)</b>			
Lead (Pb)	≤ 10 ppm	<0.5 ppm	ICP-MS
Arsenic (As)	≤ 2 ppm	<0.1 ppm	ICP-MS
Cadmium (Cd)	≤ 1 ppm	<0.1 ppm	ICP-MS
Mercury (Hg)	≤ 1 ppm	<0.05 ppm	ICP-MS
<b>Microbial Limits</b>			
Total Aerobic Microbial Count	≤ 1000 CFU/g	<10 CFU/g	USP <61> / Ph. Eur. 2.6.12
Total Yeast and Mold Count	≤ 100 CFU/g	<10 CFU/g	USP <61> / Ph. Eur. 2.6.12
E. coli	Absent in 1g	Absent	USP <62> / Ph. Eur. 2.6.13
Salmonella spp.	Absent in 10g	Absent	USP <62> / Ph. Eur. 2.6.13
Pseudomonas aeruginosa	Absent in 1g	Absent	USP <62> / Ph. Eur. 2.6.13

Quality Statement: This product is manufactured under a quality system compliant with cGMP principles for both food and cosmetic applications. Specifications and test methods are established with reference to the relevant ISO Standards, Chinese National Standards (GB), United States Pharmacopeia (USP), and European Pharmacopoeia (Ph. Eur.).

For cosmetic use, the batch fully complies with the requirements of EU Cosmetic Regulation (EC) No 1223/2009, China's Safety Technical Standards for Cosmetics (2015 Edition), and U.S. FDA cosmetic GMP guidelines. For food use, the batch meets the applicable requirements of China's national food safety standards (including GB 2762, GB 2763, GB 7101) and the U.S. FDA Food Safety Modernization Act (FSMA) and applicable food additive regulations.

Storage: Store in tight, light-resistant containers. Avoid exposure to direct sunlight, moisture, and excessive heat.

Shelf Life: 24 months if stored under the above conditions and remains in original packaging.

