

Gelatin Powder

Specification for Limed Bone Gelatin

Sr. No.	Test	Specifications	Test Method
1.	Description	Sheets, flakes, or shreds, or coarse to fine powder. Is faintly yellow or amber in color	USP-NF2023
2	Solubility	Soluble in hot water, in 6N acetic acid, and in a hot mixture of glycerin and water; insoluble in cold water, but swells and softens when immersed in it, gradually absorbing from 5 to 10 times its own weight of water, in alcohol, in chloroform, in ether, and in fixed and volatile oils.	USP-NF2023
3.	Identification A: Infrared Absorption B : Copper sulphate pentahydrate test C : 5% solution at 2-8° C for 6 hrs	Compare the spectra of the test specimen and corresponding reference standard over the range from 800 to 3500 cm ⁻¹ A violet color is produced. The contents do not flow out immediately.	USP-NF2023
4.	Specific Test		
i)	pH at 55° C	3.8- 7.6	USP-NF2023
ii)	Water conductivity at 30 ± 1.0° C	Not more than 1 mS.cm ⁻¹	USP-NF2023
iii)	Sulfur Dioxide	Not more than 50ppm	USP-NF 2023
iv)	Peroxide	Not more than 10ppm	USP-NF2023
v)	Gel Strength (Bloom Value)	150 - 170 g	USP-NF2023
vi)	Iron	Not more than 30ppm	USP-NF2023
vii)	Chromium	Not more than 10ppm	USP-NF2023
viii)	Zinc	Not more than 30ppm	USP-NF2023
ix)	Loss on Drying	Not more than 15%	USP-NF2023

5. Microbial Enumeration tests and test for specified micro organisms

i)	Total bacterial count	Not more than 10 ³ cfu/g	USP-NF2023
ii)	Total yeasts & molds count	Not more than 10 ² cfu/g	USP-NF2023
iii)	Salmonella species	Negative / 10g	USP-NF 2023
iv)	Escherichia coli	Negative/ g	USP-NF2023

Remark: The product is certified free from additives or preservatives.