


SPECIFICATION OF Si- COLLAGEN PEPTIDE

ITEM	QUALITY STANDARD	TEST METHOD
Chemical / physical test		
Appearance	White to Off- white hygroscopic powder.	Visual
Solubility	Soluble in water at room temperature	
Identification	Conforms	NIR
pH (5%)	2.0 - 3.0	USP 34 <791>
Particle size (Mesh size)	95% passes through 20 mesh	AOAC 973.03
Bulk density	0.35 gm/ml - 0.45 gm/ml	USP 30-NF25<616> METHOD II
Tap density	0.55 gm/ml - 0.75 gm/ml	USP 30-NF25<616> METHOD II
Organic carbon content (%)	45-50	USP 36- NF 31<643>
Moisture (%)	<5	Usp30<921> Method Ic
Organic volatile impurities :		Instrumental- GCMS
Chloroform	No Any	
Bromodichloromethane	No Any	
Dibromochloromethane	No Any	
Assay:		
Collagen content (%)	≥50	Gravimetric
MSM (%)	≥20	GC
Silicon (%)	4.0-5.0	Instrumental (AAS)
Potassium (%)	5.0 - 6.0	Instrumental
Heavy Metals		
Arsenic	< 2mg/ kg	Instrumental
Lead	0.2 ppm	Instrumental
Microbiological test :		
Total plate count	< 10cfu/gm	IS:5402-2002
Yeast & Mould count	< 10cfu/gm	IS:5403-2005
E. Coli	Absent/gm	IS:5887 (Part-I) 1976 RA 2005
Salmonella	Absent/25gm	IS:5887 (Part-III) 1976 RA 2005
Notes:		
Collagen source :	Bovine	

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