

**Chondroitin sulfate bovine 90%**

Condroitina sulfato bovino 90%

USP28 90 min HPLC

Date	Batch	Manufactured	Expiration	Quantity
22/05/07	20070310	06/03/07	06/03/09	300 Kg

Test   Specifications   Results		
Origin	Bovine Cartilage	Conform
Appearance	White crystalline powder	Conform
Clarity and color of solution	<= 0.35	Conform
Identification	Meet requirement	Conform
Specific rotation	-20° - -30°	-29°
Ph	5.5 - 7.5	7.4
Loss on drying	<= 10.0%	9.5%
Residue on ignition	20.0 - 30.0%	23.55%
Chloride	<= 0.50%	Conform
Sulfate	<= 0.24%	Conform
Heavy metals	<= 20 ppm	Conform
Organic volatile impurities	Meet requirements	Conform
Residual solvent(Ethanol)	<= 5000 ppm	Conform
Limit of protein	<= 3.5%	Conform
Assay (by CPC TITRATION)	>= 90%	91.09%
Total plate count(TPC)	< 1000 cfu/g	< 1000 cfu/g
Molds & yeasts	< 100 cfu/g	< 100 cfu/g
Clostridium species	Negative	Conform
E.Coli	Negative	Conform
Distinction		Food grade
Storage condition		Cool and dry condition

Passed test according to USP28

**D-Glucosamine sulfate potassium (2KCL)**  
D-Glucosamina sulfato potasica (2KCL)  
USP29

Date	Batch	Manufactured	Expiration	Quantity
29/03/07	070118K58	18/01/07	17/01/10	3000 Kg

**Test | Specifications | Results**

Characteristic	A white crystalline powder	Conformed
Specification rotation	+50° - +52°	51.60°
Content	98.0% - 102.0%	99.92%
Loss on Drying	<=0.5%	0.06%
Residue on ignition	27.0% - 29.0%	28.44%
Ph	3.5 - 5.0	4.5
Chloride	11.1% - 12.8%	11.21%
Particle Size	30 mesh	Complies
Tapped Density	>0.90g/ml	1.01g/ml
Iron	<10 ppm	<10 ppm
Arsenic	<=0.5 ppm	<0.5 pmm
Heavy metals	<= 10 ppm	<10 ppm
Total plate count	<= 1000 cfu/g	<300 cfu/g
Yeast & mold	<= 100 cfu/g	<10 cfu/g
E.Coli	Negative	Negative
Salmonella	Negative	Negative
