Heparin Calcium



EP SPECIFICATION

EP Parameter	Limit
Description	White or almost white hygroscopic powder. Freely soluble in water
Heparin identification	It complies with the requirements described under assay
Anti-factor Xa/anti-factor Ila ratio	0.9 – 1.1
Identification by H-NMR	The large heparin sodium signals must be present: 2.05 ppm, 3.29 ppm (doublet), 4.37 ppm, 5.35 ppm and 5.43 ppm, all within ± 0.03 ppm. No unidentified signals larger than 4 % compared to the height of the heparin signal at 5.43 ppm are present in the ranges 0.10-2.00 ppm, 2.10-3.10 ppm and 5.70-8.00 ppm.
Identification by SAX-HPLC	The principal peak in the chromatogram obtained with the test solution (a) is similar in retention time and shape to the principal peak in the chromatogram obtained with reference solution (c).
Calcium identification	Positive
Clarity in solution (5000 IU/mL)	Not more than 2.5 NTU
Color of solution (5000 IU/mL)	Not more than Y5
рН(1%)	5.5 — 8.0
Nucleotidic impurities	Not more than 0.15
Protein (odb)	Not more than 0.5 %
Related substances	
Sum of dermatan sulfate and chondroitin sulfate	Not more than 2.0 %
Any other impurity	No peak with an area greater than 0.01 times the area of the peak due to dermatan sulfate and chondroitin sulfate in the chromatogram obtained with reference solution (e) is detected (corresponding to a disregard limit of 0.02 %)
Nitrogen (odb)	1.5 – 2.5 %
Calcium (odb)	9.5 — 11.5 %
Loss on drying	Not more than 8.0 %
Methanol	Not more than 3000 ppm
Bacterial endotoxins	Less than 0.01 IU/IU Heparin Unit
Anti-factor IIa activity (odb)	Not less than 180 UI/mg
Anti-factor IIa activity (as is)	For information only

ADDITIONAL INFORMATION

- The shelflife is 4 years
- Source: from Europe, North and South America
- Animal origin: 100% porcine origin (rtPCR certified)
- Certification: GMP approved
- The average biological activity (APTT) is 200 MIU/KG
- No special storage requirements

