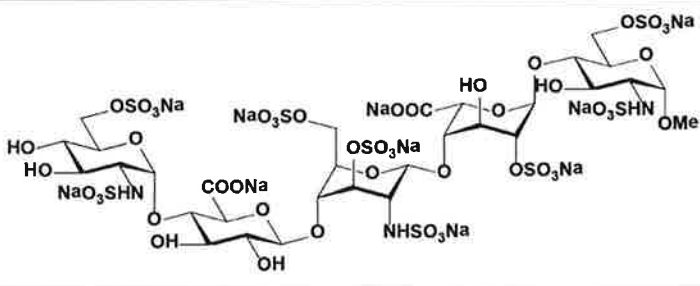


Certificate of Analysis

Certificate No.: AP2015040201

Name	Fondaparinux Sodium (CAS#: 114870-03-0)
Structure	
Quantity	510 g
Batch No.	150301FD
Manufacturing Date	Mar. 23 rd , 2015
Retest Date	Mar. 23 rd , 2016

S.No.	Items		Specifications	Results
1	Description		White to off-white powder	White powder
2	Identification	¹³ C NMR	Meet the requirements	Conform
		HPLC	Meet the requirements	Conform
		Sodium Determination	Meet the requirements	Conform
3	Assay (%w/w, on the anhydrous and solvent-free basis)		95.0-103.0	99.4
4	Sodium (%w/w, on the anhydrous and solvent-free basis)		11.5-15.0	12.0
5	Free Sulfate and residue Chloride (%w/w)			
	Free Sulfate		NMT 0.30	0.25

	Residue Chloride	NMT 1.0	0.1
6	Related Substances (% , by HPLC, area normalization)		
	Total Impurities	NMT 2.0	0.8
	Impurity A (RRT – 0.93)	NMT 0.8	Not detected
	Impurity B (RRT – 1.2)	NMT 0.6	0.5
	Any unspecified impurity	NMT 0.3	0.2
7	Residue Solvent (ppm, w/w)		
	Pyridine	NMT 50	Not detected
	Ethanol	NMT 5000	Not detected
	Methanol	NMT 3000	Not detected
	N,N-Dimethylformamide	NMT 880	Not detected
8	PH	6.0-8.0	6.2
9	Bacterial Endotoxins Test (EU/mg)	NMT 25	< 25
10	Microbial Enumeration Test (CFU/g)	NMT 350	< 10
11	Water (% , w/w)	NMT 20.0	11.5
12	Heavy metal (ppm, w/w)	NMT 10	< 10
Remark	N/A		

Conclusion: Complied with the USP Standard.

Prepared by: 涂孝龙

QC: Xiaolong Tu(涂孝龙)

Date: Apr. 2nd, 2015

Approved by: 郭志云

QA Manager: Zhiyun Guo(郭志云)

Date: Apr. 2nd, 2015