



SQUARE PHARMACEUTICALS LIMITED DHAKA UNIT

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Certificate of Analysis (COA) for Working Standard

Material : ENOXAPARIN SODIUM BP		Batch No. : 1000020603
Manuf.: Dongying Tiandong Biochemical		Date of Mfg : 21 Jul' 14
Supplier: Dongying Tiandong Biochemical		Expiry date of materials : 30 Jun' 17
Date of Analysis: 19 Jan' 15	e e e	Date of Expiry (as std.): 18 Jan' 17
Method of Analysis : UV (Thrombolyzer)		Ref. Spec. No: RMSP/QC/314/03
Reference standard: N/A		No. of Container : 24
Batch no of WS : N/A		Date of storage : 30 Mar' 15
Ref. Log Book : LB/QC/0055/15, Page No : 9	1. V (4 + 4) 2. 4 + 4	Storage Condition: 2 - 8 ° C

Tests	Specification	Results
1. Appearance	A White or almost white powder, Hygroscopic.	White powder, Hygroscpic
	A. 13C NMR spectrum: Spectra of Test solution & Standard solution are similar.	A.[Complies];
	B. Assay test: Ratio of Anti-factor Xa activity and Anti-factor IIa acylvity is between 3.3 to 5.3;	B. Complies (ratio: 3.79);
2. Identification	C. The weight-average molecular weight of Enoxaparin Sodium is between 3800 to 5000 Da; A molecular weight of less than 2000 Da, M(<2000): Is between 12.0% to 20.0%; A molecular weight between 2000 and 8000 Da, M(2000-8000): Is between 68.0% to 82.0%;	C. The weight-average molecular weight of Enoxaparin Sodium:4272 Da Molecular weight of less than 2000 Da, M(<2000): 19.6%; Molecular weightbetween 2000 & 8000 Da, M(2000-8000): 74.37%
	D. Sodium test	D. Complies
3. Loss on drying	Not more than 10% w/w	3.86%
4. Benzyl alcohol content	Not more than 0.1%	0.008%

Prepared by:	ked by:	Approved by:
P30 Mon -15	Bina 30 Mar 15	1 30 Mar 15
Abul Basar Md. Yeahea	Dr. Parimal Talukder	Dr. Md. Zahurul Hossain
Executive, QC	Manager, R&D	AGM, QA



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5. Assay

Anti-Factor Xa International Units (IU) per mg: Not less than 90 and not more than 125. Anti-Factor IIa IU Per mg: Not less than 20.0 and not more than 35.0 calculated on the dried basis.

Anti-Factor Xa IU per mg: 101.57 IU/mg (ODB);
Anti-Factor Xa IU per mg: 97.65 IU/mg (As it is);
Anti-Factor IIa IU per mg: 26.77 IU/mg (ODB);
Anti-Factor IIa IU per mg: 25.74 IU/mg (As it is);

Prepared by:	Checked by:	Approved by:
Pr 40 Mar 15	Pulsul 30 Mar 15	#30 Mar-15
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