

BIOPHEN™ ANTI-Xa (2 Stages Heparin assay) - #221005

Lot: FC117919

QC Release: 2023-07-05

Expiration date: 2025-10-14

Components	Qty	Exp. (months)	Lot #	Exp. date
R1: ATIII(h)	2 vials	30	FC117919	2025-11-07
R2: FXa (b)	2 vials	30	FC117919	2025-11-17
R3: Substrate	2 vials	30	FC117919	2025-10-14

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Analytical data	Specifications
1. AT III(h) a. Lot Homogeneity (A405 for 0 IU/mL heparin) N: 20 Mean (A405): 2.014 CV: 1.1 % b. AT content per vial (anti-Xa activity chromogenic assay) 5.55 IU c. Indicative AT content per vial (A280/Lowry on raw material) ~ 660 µg d. SDS PAGE (on raw material) 1 major band of about 58 000 Da e. Absence of heparin (on raw material) Absence	≤ 5 % ≥ 4.75 IU 1 major band of about 58,000 Da Absence
2. FXa(b) a. Lot Homogeneity (A405 for 0 IU/mL heparin) N: 20 Mean (A405): 2.043 CV: 1.3 % b. SDS PAGE (4-12% acrylamide) (FX zymogen for raw material) 1 major band of about 55 000 Da c. Indicative FXa content per vial (Lowry, from zymogen raw material) ~ 84 µg/vial d. Chromogenic activity on Xa substrate (10µg/ml) (raw material) A405 with RVV: 1.689 A405 without RVV: 1.611	≤ 5 % 1 major band of about 55,000 Da ΔA405 <10%
3. Substrate a. Blank value (free pNA) Mean (A405): 0.075 b. Lot Homogeneity (A405 for 0 IU/mL heparin) N: 20 Mean (A405): 2.065 CV: 1.8 % c. Indicative content per vial (raw material) 5 mg (about 7.8 µmol) d. HPLC analysis purity grade (raw material) 96 % e. Experimental molecular weight (raw material) 641.7 Da	A405 ≤ 0.30 ≤ 5 % ≥ 95% 641.7 ± 5 Da

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5. <u>Assay reactivity (in the tested dilution, CS-series)</u>									$R^2 \geq 0.98$ $\Delta A405(0-0.067) \geq 0.5$
A405	IU/mL (in the tested dilution)	0.0	0.006	0.017	0.033	0.050	0.067	R ²	
Purified milieu	UFH	1.196	1.081	0.871	0.603	0.399	0.269	0.99	
	LMWH	0.848	0.702	0.496	0.269	0.152	0.092	1.00	
6. <u>Detection threshold (concentration in the tested dilution, CS-series)</u>									≤ 0.005 IU/mL
In Purified solution < 0.005 IU/mL									
7. <u>Stability of reconstituted reagents (purified milieu, CS-series)</u> Reagents tested after 15 days at 2-8°C, or 7 days at RT (18-25°C) or Frozen $\leq -20^\circ\text{C}$ A405 values for UFH									$R^2 \geq 0.98$ $\Delta A405(0-0.067) \geq 0.5$ $\Delta A405(0\text{IU/mL}) \leq 10\%$ between fresh and stored $A405(\text{Free pNA}) \leq 0.30$
	0.0	0.006	0.017	0.033	0.050	0.067	R ²	A405 (Free pNA)	
Freshly restored	1.327	1.160	0.917	0.583	0.353	0.229	0.998	0.070	
15 days at 2-8°C	1.326	1.151	0.902	0.564	0.341	0.224	0.998	0.071	
7 days at RT (18-25°C)	1.294	1.129	0.885	0.558	0.337	0.219	0.998	0.069	
Frozen $\leq -20^\circ\text{C}$	1.310	1.141	0.896	0.567	0.342	0.222	0.998	0.068	
Comments :									☒ PASSED IN COMPLIANCE

Date: 2023-07-05

QC Manager: S. LECOURT