



## HYPHEN BIOMED OFFERS A COMPLETE RANGE OF KITS FOR MEASURING HEPARIN CONCENTRATIONS

**Which assay for which application?**

**Which quality system to use?**

The hyphen BioMed range of assays for measuring heparin concerns two anti-Xa based methods (kinetics mode or two-stage assay), and two anti-IIa based methods (kinetics mode and two-stage assay).

**Many possibility of testing Unfractionated Heparin (UFH) and Low Molecular Weight Heparin (LMWH) by their anti-Xa or anti-IIa activities.**

### **Kinetics methods**

**Anti-Xa** (Biophen Heparin 3 **#A221003** or Biophen Heparin 6 **#A221006**):

- The method of choice for the current testing of heparin in clinical samples.
- Can be used for UFH, LMWH, Orgaran<sup>®</sup> or Arixtra<sup>®</sup>, or on extended range (0 to 2 IU/ml).
- A “hybrid curve” can be established for testing both UFH and LMWH in plasma using the same calibration curve, provided the assay setting is appropriately applied on the instrument. Curve is of Lin (conc.)-Log (A405) type.

Assay designed with the use of **endogenous AT III** present in the tested plasma (no AT III interference down to 50%).

**Anti-IIa** (Biophen Heparin anti-IIa (purified) **#A221020**):

- A kinetics method for testing heparin anti-IIa activity for a wide range of concentrations without diluting the sample (0 to 6 IU/ml). Linear calibration curve (Lin-Lin).
- Appropriate assay for testing drugs in purified systems.
- **Exogenous AT III** is supplied in the assay.
- Applications to automated instruments available.

## **Two-stage methods:**

### **Anti-Xa (Biophen Heparin anti-Xa (2 stages) # A221010):**

- A highly sensitive two-stage assay for testing heparin (UFH/LMWH) in plasma and purified systems, in compliance with pharmacopoeias;
- Can be used for pentasaccharide (Arixtra<sup>®</sup>, Fondaparinux<sup>®</sup>) and Orgaran<sup>®</sup>;
- Applications to automated instruments available.
- **Exogenous AT III** is supplied in the assay.
- Working range: 0 to 2 IU/ml. Lin-Lin type calibration curve.

Tested plasmas with therapeutic heparin concentrations need to be diluted.

### **Anti-IIa (Biophen Heparin Anti-IIa (plasma) # A221025):**

- A two-stage anti-IIa method, highly sensitive, which can be used for testing heparin in purified systems or in plasma; in compliance with pharmacopoeias.
- Applications to automated instruments available.
- **Exogenous AT III** is supplied in the assay.
- Working range: 0 to 1 IU/ml. Lin-Lin type calibration curve.

Tested plasmas need to be diluted and the working range can be adjusted through the dilution used.

## **A full range of calibrators and controls, established against the NIBSC International Standards for UFH and LMWH.**

- BIOPHEN Heparin Calibrator ..... # **A222001**
- BIOPHEN UFH Calibrator ..... # **A222301**
- BIOPHEN Orgaran<sup>®</sup> Calibrator..... # **A222201**
- BIOPHEN LMWH Control Plasma..... # **A223001**
- BIOPHEN LMWH Control Low ..... # **A223701**
- BIOPHEN UFH Control Plasma ..... # **A223101**
- BIOPHEN Orgaran<sup>®</sup> Control..... # **A223501**
- BIOPHEN Arixtra<sup>®</sup> Calibrator..... # **A222501**
- BIOPHEN Arixtra<sup>®</sup> Control Plasma..... # **A224001**

## **Evaluating the risk of the heparin therapy complication: Heparin Induced Thrombocytopenia (HIT)**

- Risk assessment: ZYMUTEST HIA IgGAM ..... # **ARK040D**
- Complication of HIT: ZYMUTEST HIA IgG ..... # **ARK040A**
- Research Investigation: ZYMUTEST HIA IgG, IgA, IgM ..... # **ARK040E**

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