



IVD

BIOPHEN™ Heparin Calibrator

REF 222001

CAL1 CAL2 CAL3 CAL4 CAL5

4 vials x 1 mL

English, revision: 11-2023

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INTENDED USE:

For calibration of Low Molecular Weight Heparin (LMWH) assays and Unfractionated Heparin (UFH) assays when the superposition (LMWH/UFH) is validated, using a quantitative automated method

This device of in vitro diagnostic use is intended for professional use in the

SUMMARY AND EXPLANATION:

Technical:

These calibrators are used to establish the calibration curve of LMWH in plasma by anti-Xa chromogenic assays (BIOPHEN™ Heparin LRT).

Clinical:

Measuring the heparin concentration in patients' plasma can be used for monitoring the therapy and adjusting drug dosage.

REAGENTS:

CAL1 Lyophilized human plasma without LMWH.

CAL2 Lyophilized human plasma containing approximately 0.4 IU/mL of

LMWH CAL3 Lyophilized human plasma containing approximately 0.8 IU/mL of

I MWH CAL4 Lyophilized human plasma containing approximately 1.2 IU/mL of

LMWH CAL5

Lyophilized human plasma containing approximately 1.6 IU/mL of LMWH.

Calibrator plasmas contain stabilizing agents.

The calibrator concentrations may vary slightly from one batch to another. For the assay, see the exact values indicated on the flyer provided with the kit used.

The product is classified as non-hazardous and is not subject to labeling according to EC Regulation No. 1272/2008 [CLP].

WARNINGS AND PRECAUTIONS:

- Some reagents provided in these kits contain materials of human origin. Whenever human plasma is required for the preparation of these reagents, approved methods are used to test the plasma for the antibodies to HIV 1, HIV 2 and HCV, and for hepatitis B surface antigen, and results are found to be negative. However, no test method can offer complete assurance that infectious agents are absent. Therefore, users of reagents of these types must exercise extreme care in full compliance with safety precautions in the manipulation of these biological materials as if they were infectious.
- Waste should be disposed of in accordance with applicable local regulations.
- Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the Member State in which the user and/or the patient is established.
- Summary of Safety and Performance (SSP) is available in the European public database on medical devices (see Eudamed https://ec.europa.eu/tools/eudamed or on request to HYPHEN BioMed).

REAGENT PREPARATION:

Gently remove the freeze-drying stopper, to avoid any product loss when opening the vial.

CAL1 CAL2 CAL3 CAL4 CAL5 Reconstitute the contents of each vial with exactly 1 mL of distilled water.

Shake vigorously until complete dissolution while avoiding formation of foam and load it directly on the analyzer following Application Guide instruction.

This plasmatic reagent can be more or less turbid after reconstitution. This turbidity is mainly due to plasma lipids that, after freeze-drying, become "less" soluble and may form a slight deposit. If necessary, let each vial stabilize 10 minutes at room temperature and shake before use.

STORAGE AND STABILITY:

Unopened reagents should be stored at 2-8°C in their original packaging. Under these conditions, they can be used until the expiry date printed on the kit.

CAL1 CAL2 CAL3 CAL4 CAL5 Reagent stability after reconstitution, free from any contamination or evaporation, and stored closed, is of:

- 7 davs at 2-8°C.
- 60 days frozen at -20°C or less*
- Stability on board of the analyzer: see the specific Application

*Thaw only once, as rapidly as possible at 37°C and use immediately.

REAGENTS AND MATERIALS REQUIRED BUT NOT PROVIDED:

Laboratory material.

TRACEABILITY:

Lot to lot variability measured on 3 lots is: %CV ≤ 10%.

Calibrators are traceable to the WHO (World Health Organization) International Standard of reference for LMWH.

Certificate of traceability and uncertainty is available on the HYPHEN BioMed website:

Uncertainty			
CAL1	± 0.00 IU/mL	CAL4	± 0.06 IU/mL
CAL2	± 0.02 IU/mL	CAL5	± 0.08 IU/mL
CAL3	± 0.03 IU/mL		

QUALITY CONTROL:

For calibration of Heparin assays by anti-Xa chromogenic methods, with BIOPHEN™ Heparin LRT (221011/221013/221015) kits.

The target values are determined from multi-reagent and multi-instrument tests.

The use of quality controls serves to validate method compliance, along with between-series assay homogeneity for a given batch of reagents.

Include the quality controls with each series, as per good laboratory practice, in order to validate the test.

A new calibration curve should be established, preferably for each test series, and at least for each new reagent batch, or after analyzer maintenance, or when the measured quality control values fall outside the acceptance range for the method.

LIMITATIONS:

- · If the calibrators are used under measurement conditions other than those validated by HYPHEN BioMed, the test results may vary. The laboratory is responsible for validating the use of these calibrators in its own analytical system.
- Any reagent presenting no limpid appearance or showing signs of contamination must be rejected.
- This kit can also be used for the measurements of UFH when the BIOPHEN™ Heparin LRT kits are used and when the superposition (LMWH/UFH) is

The use of a single calibration with BIOPHEN™ Heparin Calibrator is possible when Heparin assays are performed with the BIOPHEN™ Heparin LRT reagents, and strictly respecting the operating protocol.

REFERENCES:

1. Gray E. et al. Heparin and low-molecular-weight heparin. Thromb Haemost. 2008.

e-IFU (other languages) are available on www.hyphen-biomed.com For customer support or Application Guides, please contact your local provider or distributor (see www.hyphen-biomed.com).

Changes compared to the previous version.

The following symbols may appear on the product labeling:

