

**BIOPHEN™ Dabigatran Calibrator****REF 222901-RUO** **CALI** **CALII** **CALIII** 4 x 1 mL**REF 222801-RUO** **CAL1** **CAL2** **CAL3** 4 x 1 mLHuman plasmas for the calibration of Dabigatran assays  
by the anti-IIa method.**FOR RESEARCH USE ONLY.****DO NOT USE IN DIAGNOSTIC PROCEDURES.**

English, last revision: 05-2022

**INTENDED USE:**

The BIOPHEN™ Dabigatran Calibrator kits consist of lyophilized human plasmas, spiked with Dabigatran at various concentrations, for the calibration of Dabigatran assays.

They are titrated and optimized for the assay of Dabigatran by anti-IIa clotting method. **This kit is for research use only and must not be used for patient diagnosis or treatment.****SUMMARY AND EXPLANATION:****Technical:**

These calibrators are used to establish the calibration curve for anti-IIa clotting and chromogenic assays of Dabigatran in plasma (HEMOCLOT™ Thrombin Inhibitors and BIOPHEN™ DTI, low range / standard range).

**REAGENTS:****CALI** Calibrator I: Lyophilized human plasma containing no Dabigatran.**CALII** Calibrator II: Lyophilized human plasma containing a titrated quantity of Dabigatran of approximately 50 ng/mL.**CALIII** Calibrator III: Lyophilized human plasma containing a titrated quantity of Dabigatran of approximately 100 ng/mL.**CAL1** Calibrator 1: Lyophilized human plasma containing no Dabigatran.**CAL2** Calibrator 2: Lyophilized human plasma containing a titrated quantity of Dabigatran of approximately 250 ng/mL.**CAL3** Calibrator 3: Lyophilized human plasma containing a titrated quantity of Dabigatran of approximately 500 ng/mL.

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.

**BIOPHEN™ Dabigatran Calibrator Low****REF 222901-RUO** → **CALI** 4 vials of 1 mL  
**CALII** 4 vials of 1 mL  
**CALIII** 4 vials of 1 mL**BIOPHEN™ Dabigatran Plasma Calibrator****REF 222801-RUO** → **CAL1** 4 vials of 1 mL  
**CAL2** 4 vials of 1 mL  
**CAL3** 4 vials of 1 mL**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.
- Use only the reagents from the same batch of kits.
- Aging studies show that the reagents can be shipped at room temperature without degradation.
- This device of *in vitro* use is intended for professional use in the laboratory.

**REAGENT PREPARATION:**

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

**CALI** **CALII** **CALIII** **CAL1** **CAL2** **CAL3** 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.

For manual method, allow to stabilize for 10 minutes at room temperature (18-25°C), homogenize before use.

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.

**CALI** **CALII** **CALIII** **CAL1** **CAL2** **CAL3** Reagent stability after reconstitution, free from any contamination or evaporation, and stored closed, is of:

- 7 days at 2-8°C.
- 48 hours at room temperature (18-25°C).
- 6 months 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:****Reagents:**

- Distilled water.

**Materials:**

- Calibrated pipettes.

**TRACEABILITY:**

The Dabigatran calibration plasmas are titrated relative to a Reference Internal Standard, whose qualification is linked to the reference method by LC-MS/MS.

**QUALITY CONTROL:**

The BIOPHEN™ Dabigatran Calibrator kits are used to establish a calibration curve to measure Dabigatran levels by anti-IIa method (low range or standard range), such as those provided by HEMOCLOT™ Thrombin Inhibitors (CK002K-RUO/CK002L-RUO) kits.

The calibrator target values are determined from multi-instrument (Sysmex CS-series or equivalent) 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 acceptable 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 an unusual appearance or showing signs of contamination must be rejected.

**The results obtained should be for research use only and must not be used for patient diagnosis or treatment.****SYMBOLS:**

Symbols used and signs listed in the ISO 15223-1 standard, see Symbol definitions document.

Changes compared to the previous version.