



BIOPHEN™ Rivaroxaban Control Low

REF 225101 C1 CII 6 vials x 1 mL

BIOPHEN™ Rivaroxaban Control Plasma

REF 224501 C1 C2 6 vials x 1 mL



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INTENDED USE:

For quality control of Rivaroxaban assays, using a quantitative automated method. This device of *in vitro* diagnostic use is intended for professional use in the laboratory.

SUMMARY AND EXPLANATION:

Technical:

These controls are proposed for the quality control of anti-Xa chromogenic assays of Rivaroxaban in plasma (BIOPHEN™ DiXal and BIOPHEN™ Heparin LRT, low range / standard range).

Clinical:

Though Rivaroxaban monitoring is not needed in treated patients, measurement in human plasma may be of use in certain cases, particularly in the event of emergency surgery or of suspected overdosage (bleeding risk).

REAGENTS:

- C1 Lyophilized human plasma containing approximately 25 ng/mL of Rivaroxaban.
- CII Lyophilized human plasma containing approximately 80 ng/mL of Rivaroxaban.
- C1 Lyophilized human plasma containing approximately 100 ng/mL of Rivaroxaban.
- C2 Lyophilized human plasma containing approximately 300 ng/mL of Rivaroxaban.

Control plasmas contain stabilizing agents.

The control 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 database on medical devices (see Eudamed public website: <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.

C1 CII C1 C2 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.

C1 CII C1 C2 Reagent stability after reconstitution, free from any contamination or evaporation, and stored closed, is of:

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

*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%.

Controls are traceable to European Pharmacopoeia (Ph. Eur.) Certified Reference Standard for Rivaroxaban.

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

Uncertainty			
C1	± 2.4 ng/mL	C1	± 15 ng/mL
CII	± 4.2 ng/mL	C2	± 15 ng/mL

QUALITY CONTROL:

For quality control of Rivaroxaban assays by anti-Xa methods (low range or standard range), with the BIOPHEN™ DiXal (221030) and BIOPHEN™ Heparin LRT kits (221011/221013/221015).

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.

If the controls fall outside of the acceptance range, the series of assays must be invalidated and the analyses repeated. Check all system parameters before repeating the series.

LIMITATIONS:

- If the controls 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 controls in its own analytical system.
- Any reagent presenting no lipid appearance or showing signs of contamination must be rejected.

REFERENCES:

1. Perzbom E. *et al.*, In vitro and in vivo studies of the novel antithrombotic agent BAY 59-7939- an oral, direct Factor Xa inhibitor. J Thromb Haemost, 2005.
2. Kubitzka D. *et al.*, Safety, pharmacodynamics, and pharmacokinetics of single doses of BAY 59-7939, an oral, direct factor Xa inhibitor. Clin Pharmacol Ther, 2005.
3. Mueck W. *et al.*, Population pharmacokinetics and pharmacodynamics of once- and twice-daily rivaroxaban for the prevention of venous thromboembolism in patients undergoing total hip replacement. Thromb Haemost, 2008.
4. Lang D. *et al.*, Metabolism and excretion of rivaroxaban - an oral, direct Factor Xa inhibitor - in rats, dogs and humans. Drug Metab Dispos, 2009.
5. Rohde G. Determination of rivaroxaban - a novel, oral, direct Factor Xa inhibitor- in human plasma by High-performance liquid chromatography- tandem mass spectrometry. J. Chromatogr, 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:

REF	Catalogue number	LOT	Batch code	IVD	In-vitro diagnostic medical device
Rx	Numerical < x> identification of reagent		See instructions for use	WHO STD	WHO standard code
	Temperature limitation		Manufacturer		Use by YYYY-MM-DD
CE XXXX	CE marking of conformity with notified body ID number.	→	Reconstitution volume	CONTENTS	Contents
Cx	Numerical < x> identification of control	i-MA	See instructions in Method Application guide	CONTAINS	Contains
EXP	Expiration date		Contains sufficient for <n> tests	UNIT	Measurement unit
TARGET VALUE	Target Value		Keep away from sunlight and heat	CALx	Numerical < x> identification of calibrator
UDI	Unique Device Identifier		Contains biological material of animal origin		Contains human blood or plasma derivatives
DA	Danger	WARNING	Warning	UK CA	UKCA marking of conformity
	Biological risks	ACCEPTANCE RANGE	Acceptance range		