



BIOPHEN™ Normal Control Plasma

REF 223201

C1 12 vials x 1 mL



HYPHEN
BioMed

155 rue d'Eragny, 95000 Neuville-sur-Oise, France

Tél : +33 (0)1 34 40 65 10

Fax : +33 (0)1 34 48 72 36

www.hyphen-biomed.com

info@hyphen-biomed.com

English, revision: 04-2026

INTENDED USE:

For quality control of hemostasis 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:

The following table shows the various parameters, which are measured using assays from HYPHEN BioMed, and according to the package inserts:

Parameter	Method	Parameter	Method
PT/INR/% and aPTT	Activity***	Factor XI (FXI)	Activity
Fibrinogen (Fbg)	Activity / Antigen	Factor XII (FXII)	Activity
Thrombin Time (TT)	Activity***	Factor XIII (FXIII)	Activity
Lupus Anticoagulant (LA)	Activity****	Plasminogen (Plg)	Activity
$\alpha 2$ - Antiplasmin ($\alpha 2$ -AP)	Activity	Protein C (PC)	Clotting activity
Antithrombin (AT)	Activity / Antigen	Protein C (PC)	Chromogenic
Factor II (FII)	Activity	Protein C (PC)	Antigen
Factor V (FV)	Activity	Protein S (PS)	Clotting activity
Factor VII (FVII)	Activity	Free Protein S (Free PS)	Antigen
Factor VIII (FVIII)	Activity	von Willebrand Factor Antigen (vWF: Ag)	Antigen
Factor IX (FIX)	Activity	Act PC-r (% FVL)	Clotting (Quantitative)**
Factor X (FX)	Activity		

*The BIOPHEN™ Normal Control Plasma is tested for the absence of Lupus Anticoagulant. It can be used as a negative control for this investigation.

**The BIOPHEN™ Normal Control Plasma is also tested for the absence of Activated Protein C resistance (Act PC-r). When tested with HEMOCLOT™ Quanti VL kit (CK065K), the expected value is <10% FVL.

***For indication only, clotting times ratio are determined against normal frozen plasma pool, and should be verified and adjusted as required against reference normal clotting times in the exact laboratory working conditions.

REAGENTS:

C1 Normal citrated human plasma, lyophilized.

Control plasma contains 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 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 Reagent stability after reconstitution, free from any contamination or evaporation, and stored closed, is of:

- For AT, PC, VII+X, Plasminogen, FII, FVII, FIX, FX, FXI, FXII, FXIII, Fibrinogen, aPCr (%FVL), lupus anticoagulant, PT/INR/%, aPTT, vWF: Ag, $\alpha 2$ -AP, Free PS and Thrombin Time:
 - 24 hours at 2-8°C.
 - 28 days frozen at -20°C or less*
 - Stability on board of the analyzer: see the specific Application Guide.
- For FVIII, FV and PS:
 - 8 hours at 2-8°C.
 - 28 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.
- HYPHEN BioMed hemostasis reagents.
- CS-series, CN-series, CA-series*, STA-R® family, ACL-TOP® family.
- *only when used with reagents claiming CA series.

TRACEABILITY:

Lot to lot variability measured on 3 lots is: %CV $\leq$ 10%.

Control is traceable to WHO International Standards in force for Fibrinogen, Antithrombin, FII, FV, FVII, FVIII, FIX, FX, FXI, FXII, FXIII, Protein C, Protein S, Free Protein S and von Willebrand Factor parameters.

Control is traceable to WHO International Standard in force for human Thromboplastin for INR parameters.

Control is traceable to human normal plasma pool for $\alpha 2$ -AP, PT% and plasminogen parameters.

Control is traceable to human VL plasma pool from heterozygous patients carrying R506Q mutation for Factor V Leiden parameter.

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

Parameter	Uncertainty	Parameter	Uncertainty
PT%	$\pm 3\%$	Factor X (FX)	$\pm 6\%$
INR	± 0.02	Factor XI (FXI)	$\pm 10\%$
Fibrinogen (Fbg)	± 0.23 g/L (antigen) ± 0.17 g/L (activity)	Factor XII (FXII)	$\pm 11\%$
$\alpha 2$ - Antiplasmin ($\alpha 2$ -AP)	$\pm 9\%$	Factor XIII (FXIII)	$\pm 9\%$
Antithrombin (AT)	$\pm 5\%$ (antigen) $\pm 8\%$ (activity)	Plasminogen (Plg)	$\pm 5\%$
Factor II (FII)	$\pm 4\%$	Protein C (PC)	$\pm 4\%$ (antigen) $\pm 9\%$ (activity)
Factor V (FV)	$\pm 9\%$	Protein S (PS)	$\pm 10\%$
Factor VII (FVII)	$\pm 6\%$	Free Protein S (Free PS)	$\pm 5\%$
Factor VIII (FVIII)	$\pm 9\%$	von Willebrand Factor Antigen (vWF: Ag)	$\pm 6\%$
Factor IX (FIX)	$\pm 9\%$	Act PC-r (% FVL)	$\pm 1\%$

QUALITY CONTROL:

For the quality control of hemostasis assays.

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 limpid appearance or showing signs of contamination must be rejected.
- The measurement obtained can vary according to the reagent type and lot, and the instrument used. The target value and acceptance range must consequently be confirmed and adjusted, if necessary, for each new lot of control, in the laboratory working conditions. PT, aPTT and TT results must be checked and adjusted if necessary in the same way.

e-IFU (other languages) are available on www.hyphen-biomed.com.

For customer support and 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	YYYY-MM-DD	Use by
CE	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		Contents 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	BIO	Contains biological material of animal origin		Contains human blood or plasma derivatives
DA	Danger	WARNING	Warning	UKCA	UKCA marking of conformity
	Biological risks	ACCEPTANCE RANGE	Acceptance range		