

5-CHROM-65 FXa Chromogenic Substrate

REF 5D-30807

For Research Use Only.

Not for Use in Diagnostic Procedures.

For *in vitro* use only.

**Store at 2-8°C
1 vial of 25 mg**

English, last revision: 03-2023

ORIGIN

Synthetic generic chromogenic substrate, highly purified and stabilized.

SPECIFICITY

Recommended substrate for Factor Xa.

PRESENTATION

Each vial contains about 25 mg of 5-CHROM-65, lyophilized in presence of Mannitol as a bulking agent.

RECONSTITUTION:

According to the research protocol used, the 5-CHROM-65 chromogenic substrate can be restored with variable volumes of distilled water; for example 10 mL can be used for a substrate concentration of 2.5 mg/mL, or 20 mL for a substrate concentration of 1.25 mg/mL. Shake thoroughly until complete dissolution (vortex). Let to stabilize for 30 minutes at room temperature.

STABILITY:

Lyophilized:

- Until the expiration date printed on the vial.

After reconstitution, in their original vial, and provided any contamination or evaporation is avoided:

- 7 days at room temperature (18-25°C).
- 3 months at 2-8°C.
- Do not freeze.

PEPTIDE SEQUENCE:

N- α -Z-D-Arg-Gly-Arg-pNA, 2HCl

CHEMICAL STRUCTURE:

C₂₈H₃₉N₁₁O₇, 2HCl

MOLARITY:

≈ 39.0 μ mol/vial.

PURITY GRADE:

> 95%.

MOLECULAR WEIGHT (-2 HCl): 641,7 Da.

MOLECULAR WEIGHT (+2 HCl): 714,7 Da.

FREE pNA CONTENT (measured on substrate at 2.5 g/L):

OD_{405nm} ≤ 0.30.

USE:

All research studies and protocols where a source of chromogenic substrate for Factor Xa is required.

This kit is for research use only and should not be used for patient diagnosis or treatment.

The results obtained should be for research purposes only and not used for patient diagnosis or treatment.

RESPECTIVE REACTIVITIES:

FXa	Thrombin	Plasmin	Kallikrein	α PC
100	1	1	15	2

Assay conditions must be duly established for rendering the assay conditions totally specific for Factor Xa, when this substrate is used.

SYMBOLS:

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

 Catalog number

 Batch code

 Expiration date

 Reconstitution volume

 YYYY-MM-DD Use by

 See instruction for use

 Temperature limitation

Certificate of Analysis

5-CHROM-65 FXa Chromogenic Substrate

Vial of 25 mg

REF 5D-30807

LOT XXX

EXP XXX

Store at 2-8°C

Analytical Data | Specifications

5-CHROM-65 content (mg):

27.5 | ≥ 22 mg

HPLC analysis (Purity Grade):

98.6 | ≥ 95 %

Solubility in water (mg/mL):

25 | ≥ 5 mg/mL

Free pNA content OD_{450nm}:

0.18 | ≤ 0.30

Experimental Molecular Weight

(-2HCl): 641 | 641 ± 5 (-2HCl)

(+2HCl): 714 | 714 ± 5 (+2HCl)

Conclusions:

Date: XXX

Passed

Refused