

5 5-DIAGNOSTICS

Certificate of Analysis

5-ENZYME Thrombin (Human)
Vial of 100 NIH

REF 5D-60230

LOT FE0542

EXP 2029-02-12

Store at 2-8°C

Analytical Data | Specifications

Protein Content :

43 µg/vial | ≥ 30 µg/vial

SDS-PAGE (4-12 % acrylamide):

35,000 daltons | 1 major band of about 35,000 daltons

Clotting time (tested on Fibrinogen):

10.9 sec | 8 ± 3.5 sec.

Thrombin concentration:

99 NIH | 100 NIH +/- 10 NIH (IU*)

*1 NIH is equivalent to 1 International Unit (IU) ("A reunification of the US ("NIH") and International Unit into a single standard for Thrombin", Longstaff et al, Thromb Haemost 2005, 93:261-6).

Chromogenic activity: (on Ila substrate 5-CHROM-38 using at Ila for 4NIH/mL)

A405 : 0.400
Activity : 1.22 /min.NIH.mL | Activity ≥ 0.75 /min.NIH.mL

Specific activity:

2454 NIH (or IU) /mg | ≥ 1 500 NIH (or IU)/mg (clotting)
4.84 nkats/µg | ≥ 2 nkats/µg (chromogenic on 5-CHROM-38)
2.11 nkats/NIH | ≥ 1 kcat/NIH (or nkats/IU)

Batch homogeneity:

N = 30 - CV : 2.5% | CV(OD) $\leq 5\%$

Conclusions:

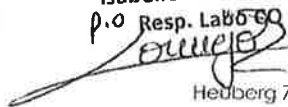
Date: 25 MARS 2025

☒ Passed:

☐ Refused:

Isabelle CORNUEJOLS

p.o. Resp. Labo 60



5-Diagnostics AG

Heuberg 7, 4051 Basel, Switzerland

Tel: +41 61 551 551 4

www.5-diagnostics.com

info@5-diagnostics.com