

Certificate of Analysis**5-ENZYME Thrombin (Human)****Vial of 100 NIH****REF** 5D-60230**LOT** FC2278**EXP** 2027-10-16**Store at 2-8°C****Analytical Data | Specifications****Protein Content:**

37 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):

9.5 sec | 8 ± 3.5 sec.

Thrombin concentration:

108 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 IIa substrate 5-CHROM-38 using at IIa for 4NIH/mL)A405: 0.396 | Activity ≥ 0.75 /min.NIH.mL
Activity: 1.23 /min.NIH.mL**Specific activity:**2852 NIH (or IU) /mg | ≥ 1 500 NIH (or IU)/mg (clotting)
6.2 nkats/µg | ≥ 2 nkats/µg (chromogenic on5-CHROM-38)
2.1 nkats/µg | ≥ 1 nkat/NIH (or nkats/IU)**Batch homogeneity:**

N = 10 – CV : 2.7 % | CV(OD) ≤ 5%

Conclusions:**Date:** 2024-05-23 **Passed**
 Refused