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Purified factor X Activator from Russell's viper venom Product No. 545 Lot No. 20/121C

Presentation: A five (5) vial set, each vial contains 5 Au (0.1 mg) of purified factor X activator from Russell's viper venom lyophilized in 20 mM Tris-HCl, 10 mM NaCl, inert excipient, pH 7.2. Reconstitute each vial with 1.0 mL of filtered deionized water for a 100 µg/mL stock solution, stable for 30 days at 2° - 8° C after reconstitution.

Clotting Assay:
Reagents

1. RVV-X Activator, Prod. No.545, diluted in 0.15M Tris-imidazole buffer pH 7.2
2. 0.025M Calcium Chloride.
3. Cephalin, 1 mL.
4. Normal human plasma, 1 mL.

Protocol

Mix 0.1 mL of Product No. 545 with 0.1 mL CaCl₂ and incubate for 2 minutes at 37°C. Add 0.2 mL of a prewarmed cephalin: plasma (1:1) mixture and measure the clotting time.

Results

RVV Activator No. 545 (µg/mL sample)	Plasma Clotting Time in presence of calcium and cephalin (seconds)
10	9.2
2	11.4
1	12.6

Alternate Test Application: Reconstitute 1 vial of Product No. 545 with 1.0 mL of filtered deionized water. Dilute in Ortho Diagnostics Thrombofax 1/1000, i.e. 5 µL RVV and 4.995 mL Thrombofax. Then incubate the following components at 37° C for two minutes:

0.1 mL Imidazole buffer, pH 7.2
0.1 mL Normal Plasma
0.1 mL RVV/Thrombofax solution

Then add 0.1 mL CaCl₂, and determine the clotting time.

Expected Results: Normal plasma under these conditions should give a clotting time of about 25 - 30 seconds.