Active Streptokinase Reference standard

Cat. No. STP-1S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Streptokinase is a plasminogen activator derived from Streptococcus haemolyticus. Streptokinase possesses no proteolytic or esterolytic activity itself and must form a 1:1 complex with plasminogen resulting in a plasminogen activator complex able to generate plasmin from free plasminogen. The plasmin generated in this way is able to digest fibrin and hence dissolve blood clots.
Species	Streptococcus haemolyticus
Bio-activity	1030 International Units (IU) per ampoule
Enzyme Unit	Bulk Streptokinase was dissolved in 4.5 L of 10 mM Hepes buffer, pH 7.4, containing 0.15 M NaCl and 5 mg/ml Human Albumin. The final concentration of Streptokinase was approximately 10 micrograms/ml. This solution was dispensed in 1 ml aliquots into ampoules before freeze drying and secondary desiccation. The mean weight of solution dispensed into ampoules before drying was 1.006g (% cv = 0.06). The mean residual moisture remaining after secondary desiccation was 0.15 %. The contents of the ampoules should be reconstituted in 1 ml of distilled water.
Usage	No attempt should be made to weigh out any portion of the freeze-dried aterial prior to reconstitution Ampoules are shipped at ambient temperatures and should be stored unopened in the dark at –20 °C upon arrival. To reconstitute, allow the ampoule to warm to room temperature and ensure that the lyophilised material is all in the base of the ampoule before carefully snapping off the top of the ampoule. The contents should be reconstituted using 1 ml of distilled water and mixed gently to produce a

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	clear, colourless solution. This solution should be stored on ice and used as soon as possible by dilution into appropriate assay buffer under conditions defined for your assay. Following reconstitution, the activity is stable for several hours when the solution is maintained on ice. However, the potency is not guaranteed after further freezing and thawing of the reconstituted solution.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.
Stability	Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label.
Storage	Unopened ampoules should be stored in the dark at or below -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

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