

## A Potential New Isolate for Actinokinase Production

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### Abstract

The study aimed to produce a potent fibrinolytic enzyme actinokinase from local isolate in batch fermentation, culture of identified thermophilic *Streptomyces* spp, grown on glucose yeast extract peptone medium pH of 8.0. The haemolytic activity of the crude enzyme and time spend for complete lysis was tested using blood agar media, and test tubes containing clotted blood. The *in-vivo* clot lyses of the crude enzyme was found to be faster (20 min) compared to the other commercial fibrinolytic enzyme (90 min). The enzyme was stable at a broad range of pH ranging from 5 to 9. This particular isolate could produce a promising actinokinase with thrombolytic potent activity.

**Keywords:** Fibrinolytic Activity; Actinokinase; Thermophilic *Streptomyces* and Thrombosis