

论文

尖吻蝮蛇毒凝血酶样酶(TLE)的酶联免疫吸附分析(ELISA)

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摘要:

本文以辣根过氧化物酶(HRP)为标记酶,聚苯乙烯微量血凝板为固相载体,运用夹心酶联免疫吸附(ELISA)技术研究了部分纯化的尖吻蝮蛇毒凝血酶样酶(TLE)的微量检测,并用四参数方程模拟了TLE的对数剂量反应曲线。

关键词: 夹心酶联免疫吸附(ELISA) 蛇毒 凝血酶样酶(TLE)

THE SANDWICH ELISA FOR THE THROMBIN-LIKE ENZYME OF AGKISTRODON ACUTUS VENOM

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Abstract:

In the present investigation, horseradish peroxidase (HRP) was used as the marker and polystyrene micro-haemagglutination plates was used as the solid carrier. The EIA for thrombin-like enzyme (TLE) partially purified from the Agkistrodon acutus venom was studied with the sandwich ELISA. It was shown that the sandwich ELISA for TLE was a sensitive and specific method. The minimum concentration of TLE that could be detected was as low as 1~5 ng.ml<sup>-1</sup> with reproducibility. The "s"-type logarithm dose reaction curve of TLE in rat plasma was fitted on FO-3 microcomputer using the logarithm model with four parameters and BASIC program based on nonlfnear least square satisfactorily.

Keywords: Snake venom Thrombin-like enzyme (TLE) Agkistrodon acutus venom Sandwich ELISA

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