

研究报告

恩诺沙星单克隆抗体的制备及酶联免疫分析方法的建立

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摘要 用 ENRO-BSA 联结的免疫原免疫 Balb/c 小鼠, 采用杂交瘤技术得到 7 株可分泌抗恩诺沙星抗体的杂交瘤细胞, 并用 ENRO19B10 抗体建立了酶联免疫吸附法(ELISA)用以检测恩诺沙星在动物源性食品中的残留。经方法学鉴定, 本方法的曲线范围是 0.5-50 ng/mL, 灵敏度是 0.2 ng/mL, 批内变异 <10%, 批间变异 <20%。鸡肉、鱼肉、虾和蜂蜜样品的平均回收率分别为 95.5 %~107.5 %, 80.0 %~101.3 %, 105.7 %~122.7 % 和 93.3 %~111.3 %。

关键词 [恩诺沙星\(Enrofloxacin\)](#) [单克隆抗体\(Monoclonal antibody\)](#) [酶联免疫分析\(ELISA\)](#)

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Production of Monoclonal Antibodies against Enrofloxacin and the Establishment of Enzyme-linked Immunosorbent Assay

Abstract Mice were immunized with ENRO-BSA conjugate, and seven stable cell lines excreting monoclonal antibodies against ENRO were obtained by hybridoma technique. Then ENRO19B10 was selected to develop an ELISA to analyze enrofloxacin residues in animal-based food products. The standard line of the assay was in the range 0.5-50 ng/mL. The sensitivity was 0.2 µg/mL. The intra- and inter-assay CVs of 3 samples were lower than 10% and 20% respectively. The average recoveries of chicken muscle tissues, fish, shrimp and honey were in the range of 95.5 %~107.5 %, 80.0 %~101.3 %, 105.7 %~122.7 % and 93.3 %~111.3 % respectively.

Key words [Enrofloxacin](#) [Monoclonal antibody](#) [ELISA](#)

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