化学

磺胺二甲嘧啶抗体的制备及酶联免疫分析方法的建立

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摘要　　应用人工合成免疫原免疫动物、杂交瘤融合技术制备出抗磺胺二甲嘧啶的单抗及多抗。抗体亲和常数均大于1.0×10^8 L/mol。利用多抗2510建立酶联免疫分析方法。该方法测量范围为$0.1\sim30$ ng/mL，灵敏度为0.08 ng/mL，批内变异<15%，批间变异<21%。不同样品回收率在80.5%～137.8%之间，稀释实验测定值与稀释度呈线性相关，相关系数为0.997。

关键词　　酶联免疫分析方法　磺胺二甲嘧啶　抗体

分类号　R978.2

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Preparation of Anti　sulfamethazine Antibody and Establishment
of Enzyme　Linked Immunosorbent Assay for Sulfamethazine

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Abstract　Polyclonal antibodies (PcAbs) and monoclonal antibodies (McAbs) against sulfamethazine (SM$_2$) were obtained. The association constants (K_a) of the antibodies are all higher than 10^8 L/mol. The enzyme　linked immunosorbent assay (ELISA) for the measurement of SM$_2$ was set up by using PcAb　2510. The assay range for this method is 0.1-30 ng/mL and the sensitivity is 0　08 ng/mL. The intra　assay and inter　assay coefficients of variation (CV) vary from 12.8%-14.1% and 14.0%-20.5%，respectively。　The recovery of the analyte in different samples is from 80.5% to 137　8% and the experimental correlation coefficient of dilution is found to be 0.997.

Key words　enzyme-linked　immunosorbent　assay　 sulfamethazine　 antibody

通讯作者