

化学

C-反应蛋白放射免疫分析试剂盒的研制

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摘要 C-反应蛋白是动脉粥样硬化血栓形成的生物标志物。定期检测血液中C-反应蛋白含量的变化对预测心血管疾病的发生和发展有重要意义。本研究开发的C-反应蛋白放射免疫分析试剂盒的测量范围为1~50 mg/L, 灵敏度为0.30 mg/L, 回收率为91.7%~114.0%, 批内、批间平均变异系数分别为3.4%和6.3%;高浓度血样系列倍比稀释后测定, 实测值和计算值呈线性相关, 相关系数>0.990。这将为检测心血管疾病的发生、治疗及预后提供方便。

关键词 [C-反应蛋白](#) [放射免疫分析](#) [动脉粥样硬化](#) [心血管疾病](#)

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Development of Radioimmunoassay Kit for C-Reactive Protein

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Abstract C-reactive protein (CRP) is a biomarker of thrombosis in atherosclerosis. Therefore, it is important for us to regularly detect the level of CRP in serum, which would predict cardiovascular disease's occurrence and development. A radioimmunoassay method was established for detecting CRP in our lab. The measurement range of the assay is 1-50 mg/L, sensitivity is 0.30 mg/L, recovery rate is 91.7%-114.0%. Intra- and inter-assay variation coefficients are 3.4% and 6.3%, respectively. The correlation coefficients between measured and expected values are more than 0.990 after serial dilution of the serum samples with high concentrations of CRP. The kit would provide a convenience in the control, treatment and prognosis of cardiovascular disease.

Key words [CRP](#) [radioimmunoassay](#) [atherosclerosis](#) [cardiovascular disease](#)

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