

论文

降胆固醇药物快速筛选法的研究

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摘要:

采用改进的Wybenga氏血清总胆固醇直接测定法测定了正常大白鼠血清总胆固醇的正常值,并发现每周采血一次及每日用生理盐水灌胃对大白鼠血清总胆固醇浓度均无明显影响。因此认为可采用正常雄性大白鼠作为降胆固醇药物筛选的模型。此后,我们就以正常雄性大白鼠作模型,对首乌、带鱼鳞油及复方磷酸酯酶片等进行了筛选。并用血清胆固醇下降20%作为筛选的有效标准。结果表明首乌、带鱼鳞油均有显著的降胆固醇作用,而复方磷酸酯酶片没有什么作用。

关键词:

RAPID SCREENING METHOD FOR HYPOCHOLESTEROLEMIC AGENTS

Mei Mei-zhen; Zhuang Qing-Qi; Liu Gui-zhen; and Xie Wan-jin

Abstract:

For the purpose of rapid screening of hypocholesterolemic agents, we applied the Wybenga's method with slight modification to determine the serum cholesterol level of normal male rats. We did a series of experiments. Results showed that the cholesterol level of rats presented a pattern of normal distribution. Weekly blood-sampling or daily stomach-intubation had no influence on the cholesterol level. Thus we considered that normal male rats could be employed as an animal model for screening hypocholesterolemic drugs. Thereafter, we used the method to test the hypocholesterolemic effect of heshouwu(Polygonum multiflorum Thunb.), scale-oil of hairtail(Trichiurus chinensis) and"compound phosphoesterase tablets". The data showed that heshouwu and scale-oil of hairtail were both effective, they lowered the serum cholesterol by 20 per cent, which was considered as the critical value of effectiveness, but"compound phosphoesterase tablets" did not show any effect at all.

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