

园艺—应用研究

金银花、山银花绿原酸类提取物体外抗NDV作用研究

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摘要:

为研究比较价格差异较大的金银花和山银花的体外抗病毒作用,分别提取金银花和山银花绿原酸类活性成分,利用Vero细胞体外培养系统,通过观察细胞病变效应(CPE),并用MTT法检测细胞活性来评价和比较金银花和山银花绿原酸类提取物体外抑制新城疫病毒(NDV)对细胞的感染作用。结果表明:在安全浓度范围内,金银花和山银花绿原酸类提取物均具有显著的抗病毒作用,体外对NDV分别具有明显的阻断作用、抑制作用和中和作用,且两者之间的抗病毒效果差异不显著。本试验为价格相对便宜的山银花在一定领域部分代替金银花提供了实验依据。

关键词: Vero

The Study on Antiviral Effect of Chlorogenic Acids from Flos Lonicerae japonicae and Flos Lonicerae on NDV in Vitro

Abstract:

The aim was to study the antiviral effects between Flos Lonicerae japonicae and Flos Lonicerae which were very different in price. Chlorogenic acids were extracted from them. The antiviral effects of the Chlorogenic acids extracts on the infection of Newcastle disease virus (NDV) to cells were investigated by observing cytopathic effect (CPE) in Vero cell, and the cell survival rate by MTT method was detected. The antivirus effects of Flos Lonicerae japonicae and Flos Lonicerae were compared. The results showed that the chlorogenic acids ingredients from Flos Lonicerae japonicae and Flos Lonicerae had significant antivirus function in safe concentration; the chlorogenic acids extracts had obvious interdiction, inhibition and neutralization effects to NDV in Vero cell. There were no obvious differences between Flos Lonicerae japonicae and Flos Lonicerae in the antivirus effects. It will give the test proof that the cheaper Flos Lonicerae can take part place of Lonicera japonica japonicae in a certain area.

Keywords: Vero

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