

HPLC在线检测消癌平注射液清除ABTS^{•+}活性

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中文摘要:目的: 利用HPLC在线检测消癌平注射液对ABTS^{•+}的清除活性, 研究其抗氧化活性物质基础。方法: 消癌平注射液经HPLC在柱后与ABTS^{•+}工作液混合并充分反应后, 经过检测器记录反应信号, 通过对照品鉴定各主要成分, 并计算其清除率。结果: 已鉴定出新绿原酸、咖啡酸、绿原酸, 其对ABTS^{•+}的清除率分别为9.9%, 22.5%, 16.5%。结论: 消癌平注射液中酚酸类物质对ABTS^{•+}有较强的清除作用; 此方法可实现中药制剂抗氧化活性成分的在线检测。

中文关键词: [消癌平注射液](#); [高效液相色谱](#); [2, 2'-联氨-双-\(3-乙基苯并噻唑啉-6-磺酸\)](#); [自由基](#)

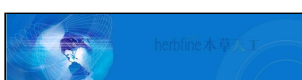
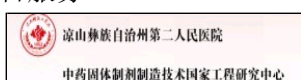
On-line Scavenging Activity of Xiaoaiping Injection for ABTS^{•+} Radicals by HPLC ()

Abstract: Objective: To study the scavenging activities of Xiaoaiping injection for ABTS^{•+} by HPLC to trace the active constituents on-line. Method: Solution of Xiaoaiping injection was passed through HPLC to enter into the PEEK coil contained the ABTS^{•+} working solution, and signals were recorded, and their chemical constituents were identified by standard references, and their scavenging rates were calculated. Result: Neochlorogenic acid, caffeic acid and chlorogenic acid were identified, about the scavenging activities for ABTS^{•+}, and their scavenging rates were 9.9%, 22.5%, 16.5% respectively. Conclusion: Phenolic acids in Xiaoaiping injection make a significant contribution to the scavenging activities for ABTS^{•+}. It is shown that the method for on-line detection is an advantageous tool to rapidly determine antioxidants from traditional Chinese medicine.

keywords: [Xiaoaiping injection](#) [HPLC](#) [ABTS](#) [free radical](#)

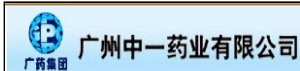
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