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HPLC同时测定复方替硝唑载体栓中3组分含量

Simultaneous Determination of Three Components in Compound Tinidazole Carrier Suppositories by HPLC

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中文关键词: [复方替硝唑载体栓](#) [替硝唑](#) [克霉唑](#) [醋酸氯己定](#) [高效液相色谱法](#)

英文关键词: [compound tinidazole carrier suppositories](#) [tinidazole](#) [clotrimazole](#) [chlorhexidine acetate](#) [HPLC](#)

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中文摘要:

目的 建立HPLC同时测定复方替硝唑载体栓中3组分含量。方法 采用Diamonsil C₁₈(200 mm×4.6 mm, 5 μm); 流动相: 甲醇-水-三乙胺(60:40:0.5)(用磷酸调pH值至4.0), 流速: 1.0 mL·min⁻¹, 检测波长: 260 nm, 进样量: 20 μL; 柱温: 25 °C。结果 复方替硝唑载体栓中3组分替硝唑、克霉唑、醋酸氯己定的线性范围分别为40~600, 32~480, 1.6~24 μg·mL⁻¹(r=0.999 9), 平均回收率分别为99.81%, 100.2%, 100.3%; RSD分别为0.37%, 0.2%和0.4%(n=9)。结论 该方法可同时测定3种成分含量, 操作简便、快速, 结果准确、可靠。

英文摘要:

OBJECTIVE To establish an HPLC method to simultaneous determine three components in compound tinidazole carrier suppositories. METHODS A Diamonsil-C₁₈(200 mm×4.6 mm, 5 μm) column was used; the mobile phase was the mixture of methanol-water-triethylamine(60:40:0.5)(adjusted by phosphoric acid to pH 4.0), the flow rate was 1.0 mL·min⁻¹, the UV detector was operated at 260 nm, injection volume was 20 μL; column temperature was 25 °C. RESULTS The linear ranges of three components in compound tinidazole carrier suppositories tinidazole, clotrimazole, chlorhexidine acetate were 40-600, 32-480, 1.6-24 μg·mL⁻¹(r=0.999 9). The average recoveries respectively were 99.81%, 100.2%, 100.3%, and RSDs respectively were 0.37%, 0.2% and 0.4%(n=9). CONCLUSION This method can simultaneously determine three components. It is easy and fast with accurate and reliable results.

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