

研究简报

^{153}Sm -EDTMP注射液活度测量标准化研究

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收稿日期 2008-3-18 修回日期 2008-9-25 网络版发布日期: 2008-11-20

摘要 治疗用放射性药品活度与其用药安全性和有效直接相关。为了确保 ^{153}Sm -EDTMP注射液用药安全有效, 本工作对使用活度计测量 $\text{Na}^{188}\text{ReO}_4$ 溶液活度的方法进行了标准化研究。利用 4π 液闪、 $4\pi\beta$ - γ 符合方法, 通过四家单位6套装置测量, 确定 ^{153}Sm -EDTMP注射液标准源的活度量值; 再利用已知活度的标准源, 对使用活度计测量 ^{153}Sm -EDTMP注射液活度的方法进行了标准化研究, 确定测量条件。

关键词 [\$^{153}\text{Sm}\$ -EDTMP注射液](#) [活度测量](#) [标准化](#)

分类号

Study on the Standardization for the Radioactivity Measurement

Abstract The safety and efficacy of the therapeutic radiopharmaceuticals directly depends on its dosage. In order to determine the radioactivity of ^{153}Sm -EDTMP Injection accurately with dose calibrators, and ensure the safety and efficacy of the ^{153}Sm -EDTMP Injection, the standardization for the radioactivity measurement of ^{153}Sm -EDTMP Injection with dose calibrators has been studied, in which 4π liquid scintillator and $4\pi\beta$ - γ coincidence method are used to determine the values of radioactivity for the ^{153}Sm -EDTMP Injection standard source with 6 experimental set-ups in four laboratories, then the dose calibrators are calibrated with the standard source, and the effect of the type of dose calibrator, the container of the standard source, and the volume of the solution are studied systematically, at last determine the measurement conditions.

Key words [\$^{153}\text{Sm}\$ -EDTMP Injection](#) [radioactivity measurement](#) [standardization](#)

DOI

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