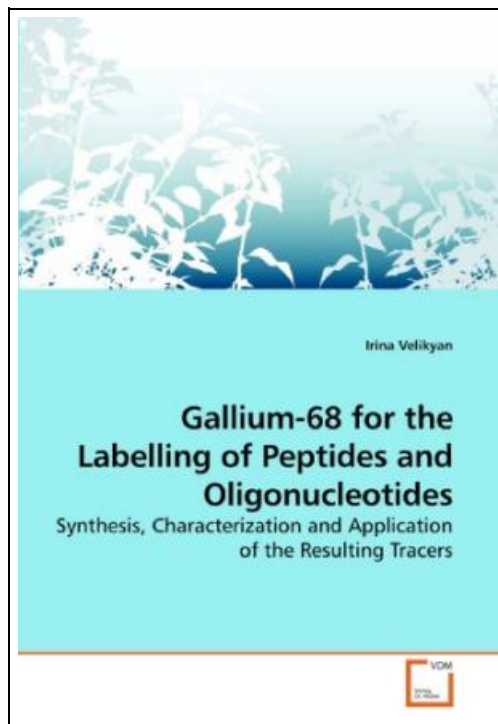


Gallium-68 for the Labelling of Peptides and Oligonucleotides



Filesize: 5.65 MB

Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

GALLIUM-68 FOR THE LABELLING OF PEPTIDES AND OLIGONUCLEOTIDES



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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Synthesis, Characterization and Application of the Resulting Tracers | Positron emission tomography (PET) is a non-invasive imaging technique of high resolution, sensitivity and accurate quantification. The use of $^{68}\text{Ge}/^{68}\text{Ga}$ generator produced positron emitting gallium-68 might make PET clinical examinations possible worldwide at centres lacking accelerators. The ^{68}Ga (III) is suitable for complexation reactions with chelators either naked or conjugated with macromolecules such as peptides and oligonucleotides. Such labelling procedures require pure and concentrated radiometal preparations, which cannot be sufficiently fulfilled by the presently available generator eluate. This work presents a method to increase the concentration and purity of ^{68}Ga obtained from a commercial generator. In combination with microwave heating it improved specific radioactivity considerably. The method was automated for the radiopharmaceutical production for patient examinations. The availability of the methodology for the labelling of tracers with high specific radioactivity as well as technological platforms for automated production might be of great benefit for clinical practice and promote personalized medicine. | Format: Paperback | Language/Sprache: english | 125 gr | 80 pp.



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