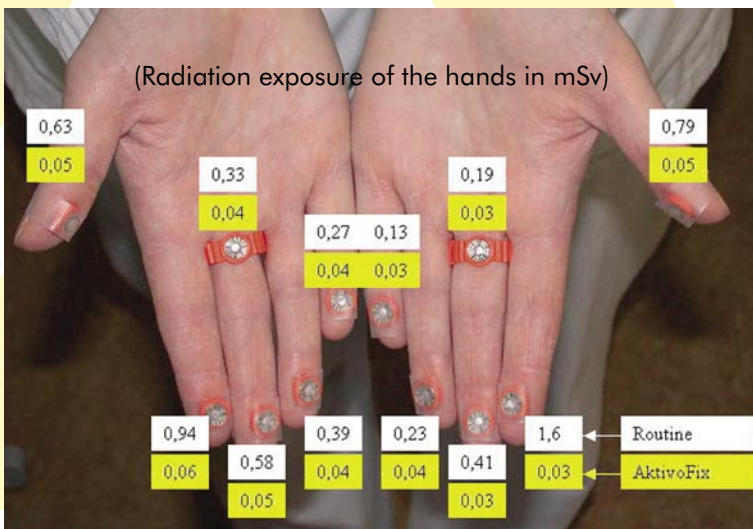


AktivoFix

Syringe filling system for radiopharmaceuticals

The AktivoFix is a system for easy filling of syringes with radiopharmaceuticals and simultaneous measurement of the activity drawn up. The system has been developed by practical experience. Due to AktivoFix, the radiation exposure (extremity dose) of the nurse or laboratory technologist filling syringes with radiopharmaceuticals in daily routine work can be reduced by up to 90 %

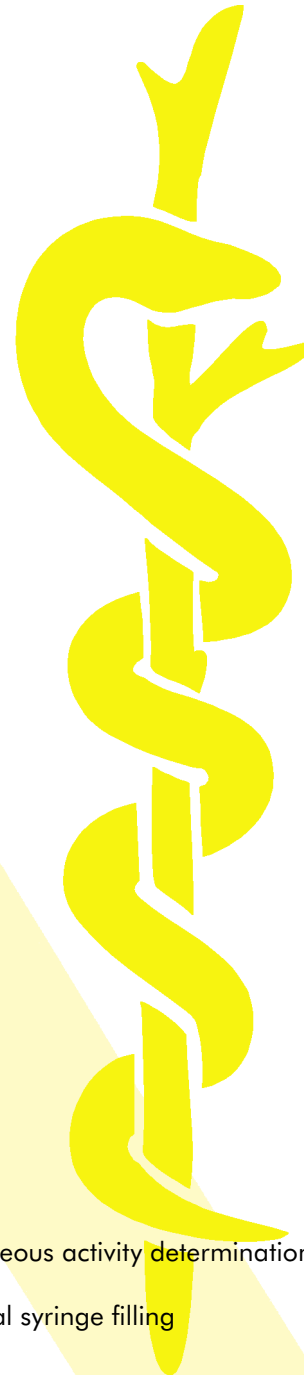


System features:

- easy to use syringe filling system
- optimized proceeding from filling out of eluate container and simultaneous activity determination up till syringe fastening in tungsten syringe shielding
- evident reduction of extremity dose by up to 90 % compared to manual syringe filling
- exact filling of determined activity
- no contamination risk of the hands anymore
- time gain by up to 10 % compared to manual syringe filling
- requires little space



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AktivoFix

For this manual syringe filling system, a shielded eluate container is installed in the lower measuring chamber range of a MED dose calibrator. The structural features of the AktivoFix system are in line with ^{99m}Tc . The AktivoFix is situated together with the inserted syringe in the optimal measuring position of the measuring chamber chute, so that the activity of the radiopharmaceutical filled from the eluate container into the syringe can be measured simultaneously. The AktivoFix is a low price instrument for the reduction of radiation exposure during daily routine work in hot laboratories. This complies with the principles of radiation protection, i.e. that any exposure to radiation has to be kept as low as possible.



①



②



③



④



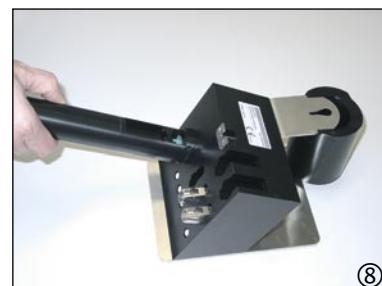
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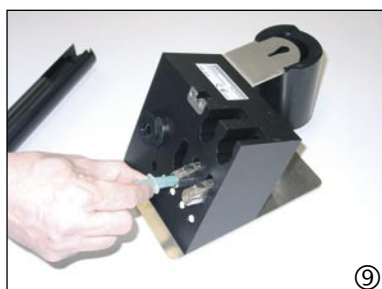
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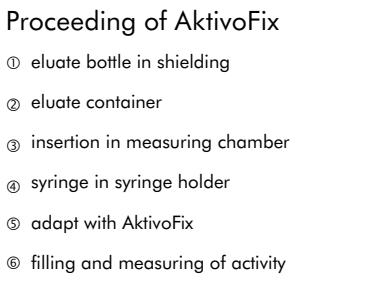
⑦



⑧



⑨



⑩

Proceeding of AktivoFix

- ① eluate bottle in shielding
- ② eluate container
- ③ insertion in measuring chamber
- ④ syringe in syringe holder
- ⑤ adapt with AktivoFix
- ⑥ filling and measuring of activity
- ⑦ wiping of cannula
- ⑧ taking of syringe holder
- ⑨ moving syringe into shielding
- ⑩ complete system

Subject to technical change without notice. 11/02 500

The AktivoFix is meant for operation in the dose calibrators of MED Nuklear-Medizintechnik types ISOMED 1000 and ISOMED 2000. The AktivoFix system was developed by Dr. med. O. Lindner, Institut für molekulare Biophysik, Radiopharmazie und Nuklearmedizin at the Herz- und Diabetiszentrum NRW, Bad Oeynhausen, Germany. A patent was granted to it (Akz. 19847726.0). The system was supported by rubitec GmbH (Ruhr-Universität Bochum) with means of the federal state Nordrhein-Westfalen and the European Union.



Nuklear-Medizintechnik Dresden GmbH

Dornblüthstraße 14A · D-01277 Dresden · Tel.: +49 351/4330050 · Fax: + 49 351/43300518
 Ostdamm 139 · D-48249 Dülmen · Tel.: + 49 2594/9424-41 · Fax: + 49 2594/9424-45
 eMail: info@nuklear-medizintechnik.de · www.nuklear-medizintechnik.de