



1000 Dose Calibrator



Application

- Determination of the activity and specific activity of radiopharmaceuticals
- Measurement of the activity of all nuclides, up to 300 GBq, common in PET; measurement time 1 - 1.5 s
- Also calibrated for the nuclides of radio synoviorthesis (Y-90, Er-169, Re-186) and pain therapy (Sm-153, Re-188)
- Dosage (activity to volume) of injection solutions for diagnostics and therapy

Advantages:

- simple and safe operation
- future-oriented measuring technique with standard PC system (Mini-PC)
- clearly-structured presentation of measured results and parameters
- menu-guided software using screen windows

- comprehensive isotope file, standard calibrations taking into account container (syringe size, ampoule, bottle, capsule) and contents; expansion of isotope file possible any time
- background measurement and compensation
- calculation of measured value for freely selectable time of application
- correlation of measured value to patients possible
- integrated quality control according to the Directive for Radiation Protection in Medicine, EN 61303 and DIN 6854/55 with log printout and date monitoring
- rapid determination of half-life to check for impurities (radiopharmaceutical identity check)
- reliable chute ionization chamber in various designs; high measurement accuracy with low position dependency of sample
- integrated basic shielding 4 mm Pb, additional shieldings 16/50 mm
- network integration possible
- connection to software for nuclide management and balancing
- connection of label and protocol printer possible
- certified in accordance with Medical Product Act CE 0123

Technical Data:

Measuring range

e.g. Tc-99m 40 kBq to 50/200* GBq (* 7% additional error)

F -18 60 kBq to 70/300* GBq

Measuring range setting automatically, alternative: fixed measuring range adjustable e.g. for PET filling

Energy range for Gamma sources 25 keV to 3 MeV

Measurement time

with meas. range change-over 2s - 15s

without meas. range change-over 1s - 3s

Basic error < 5%

Linearity error < 2%

Result display 4-digits including display of unit, nuclide and chemical compound

Stored isotope table C-11, N-13, O-15, F-18, P-32, Cr-51, Mn-54, Co-57, Co-58, Fe-59, Co-60,

Ga-67, Se-75, Sr-89, Y-90, Mo-99, Tc-99m, In-111, In-113m, I-123,

I-125, I-131, Xe-133, Cs-137, Ba-140, Sm-153, Er-169, Yb-169,

Re-186, Re-188, Hg-197, Tl-201, Ra-224

Containers

Injector syringe 1, 2, 3, 5, 10, 20 ml

Bottles 5, 10 (P6), 15, 20 ml

Ampoules 5 ml

Capsules for Co-57, Co-58, I-131

Contents (sample quantity) 0.1 ml – 99.9 ml

Measurement chamber chamber Ø 125/184 mm, chute Ø 47 mm

Dimensions total height 387 mm, chute depth 205 mm

Shielding 4 mm Pb basic shielding

additional shieldings 16, 50 mm

PC-System Mini PC

Monitor any, e.g. 10", 15" color monitor or flat LC display, resolution adjustable

Keyboard membrane keypad

Further technical data see instrument documentation.

Subject to technical modifications without notice.

Accessories:

- Test source Cs-137, 3.7 MBq
- Molybdenum kit
- Manipulator
- Sample dish for capsules
- Additional shieldings (16/50 mm Pb)
- Various printers

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