

ACCURACY COUNTS

The ONLY
NIST
traceable
Dose
Calibrator
standard for
F-18 PET
Calibration



*Initial trials done
by independent
physicists
show that **ALL**
(100%) of dose
calibrators
incorrectly
measured F-18
doses by as much
as 10.5 %!*

RadQual[™]

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TECHNICAL INFORMATION

GALLIUM-68 IN SECULAR EQUILIBRIUM WITH GERMANIUM-68

Total Height – 3.06 inches
Active Height – 1.42 inches
Total Diameter (barrel) – 0.625 inches
Active Diameter (barrel) – 0.455 inches
Maximum Diameter (Cap) – 1.125 inches
Maximum Activity – 0.5 millicuries (18.5 MBq)
Matrix Density – 1.1 gm/cc

SS&D NR-1235-S-102-S

Why Ga-68/Ge-68 for calibration of 511 KeV F-18

	<u>Na-22</u>	<u>Cs-137</u>	<u>F-18</u>	<u>Ga-68</u>
E_i	1.27MeV	0.661MeV	none	1.07MeV
n_i	99.9%	85.1%	NA	3.2%
γ_{\pm}	179.8%	none	193.8%	178.0%

NCRP REPORT No.58

