

VB1000 WELL CHAMBER

WHY PERFORM INDEPENDENT VERIFICATION?

AAPM TG 56 & TG 40, IAEA TRS 398, and many manufacturers of brachytherapy seeds recommend independent verification of their source strengths. Centers in the U.S. may also be forgoing reimbursement income by not performing independent verifications. CPT code 77370 provides reimbursement for on-site calibration of brachytherapy seeds. To receive the reimbursement a facility is required to have a NIST traceable calibration for instruments like the HDR 1000 Plus or IVB 1000 Well Chambers for on-site calibrations.

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CONFIDENCE IN BRACHYTHERAPY SOURCE CALIBRATION

The IVB 1000 Well Chamber can be used for intravascular, HDR and LDR brachytherapy. It is similar to the HDR 1000 Plus but has an active length which is four times longer, making it ideal for long source trains.

BRACHYTHERAPY

Features

Superior Functionality

- An exceptionally long 100 mm sweet spot, unmatched in other chambers, accommodates long source trains and wires
- Calibrates individual and multiple isotopes
- Outstanding versatility, use one chamber for many isotopes
- Source holders available for most existing sources

Assurance is Confidence

- Satisfies NRC requirements and TG-60 quality assurance requirements for IVB source strength verification
- Precise and accurate calibration of HDR and LDR Iridium, lodine, Palladium, Cesium, and Strontium brachytherapy source activities

IVB 1000 WELL CHAMBER (REF 90009) SPECIFICATIONS

| ACTIVE VOLUME | OLUME 475 cm ³ SENSITIVITY | | | |
|---------------|---|--|--|---|
| CONNECTOR | Two lug triax BNC (standard) TNC, Type M, or BNC + Banana (optional) | SOURCE | Current to Air Kerma Strength $(U=1uGym^2/h)$ | Current to Apparent Activity |
| | | HDR Iridium: | 2.2 pA/U | 9.0 nA/Ci |
| RANGE | 10 U to 80 MU 0.01 mCi to 20 Ci | Cesium: LDR Iridium: | 2.1 pA/U 2.4 pA/U 4.3 pA/U 2.3 pA/U | 5.9 nA/Ci 9.5 nA/Ci 5.5 nA/Ci 2.6 nA/Ci |
| CABLE | 3 ft, 1 m | lodine: Palladium: | | |
| BIAS VOLTAGE | \pm 300 volts, typical | Approx. 38.5 nA/Gy/s for ⁹⁰ Sr/ ⁹⁰ Y | | |
| LEAKAGE | Less than 50 fA | ACCESSORIE | Case (REF 50026) included (4) Interlocking 1" lead rings (REF 70025) Carrying case for Comprehensive Calibration System (REF 70012) | |
| STABILITY | 0.2% (Reproducibility over 2 years) | | | |
| RESPONSE | \pm 0.3% over 100 mm at center of axis, typical | - | | |
| | | DIMENSIONS | 0 , | Height: 10.2 in, 25.9 cm Insert Diameter: 1.4 in, 3.5 cm Diameter: 4 in, 10.2 cm Insert Height: 8.8 in, 22.4 cm Weight: 8.0 lbs, 3.6 kg |

Specifications subject to change without notice.

ORDERING INFORMATION

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