

HDR 1000 PLUS WELL CHAMBER

CONFIDENCE IN BRACHYTHERAPY SOURCE CALIBRATION

The HDR 1000 Plus Well Chamber is an air-communicating chamber, so there is no inaccuracy due to an undetected gas leak as in a pressurized chamber. The HDR 1000 Plus is ideal for low dose rate and high dose rate brachytherapy. Source holders are available for most existing sources.

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.



Features

International Acclaim

 HDR 1000 Plus has been performance validated in more than 50 scientific presentations and is used by Primary and Secondary Radiation Standards Laboratories throughout the world

Assurance is Confidence

 Precise and accurate calibration of HDR and LDR Iridium, lodine, Palladium, Cesium, and Strontium brachytherapy source activities. Calibrates individual and multiple sources.

Wide Range of Uses

- Outstanding versatility, use one chamber for many isotopes
- Source holders available for most existing sources Including: Cesium, Iridium, HDR Iridium, LDR Iridium, Iridium Wire, Iodine, Palladium

HDR 1000 PLUS WELL CHAMBER (REF 90008) SPECIFICATIONS

ADCL CALIBRATIONS HDR 192 Ir and/or LDR radionuclides from		SENSITIVITY		
	various manufacturers as requested		Current to Air Kerma Strength (U=1uGym²/h)	Current to Apparent Activity
ACTIVE VOLUME 245 cm ³		HDR Iridium:	2.1 pA/U	8.6 nA/Ci
CONNECTOR	Two lug triax BNC (standard) TNC, Type M, or BNC + Banana (optional)	Cesium: LDR Iridium: Iodine: Palladium:	2.0 pA/U 2.3 pA/U 4.3 pA/U 2.1 pA/U	5.6 nA/Ci 9.1 nA/Ci 5.4 nA/Ci 2.4 nA/Ci
RANGE	10 U to 80 MU 0.01 mCi to 20 Ci	A _{ion}	0.9996, typical	
CABLE	3 ft, 1 m	ACCESSORIES	Case (REF 50004) and source holder of choice included	
BIAS VOLTAGE	± 300 volts, typical		Wall mount accessory (REF 70007) (5) Interlocking 1" lead rings (REF 70125)	
LEAKAGE	Less than 50 fA		Carrying case for any Comprehensive Calibration System (REF 70012)	
STABILITY	0.2% (Reproducibility over 2 years)	DIMENSIONS	Height: 6.1 in, 15.6 cm	
RESPONSE	± 0.5% over 25 mm at center of axis		Weight: 6.1 lbs, 2.7 kg	isercrieignic. 4.0 III, 12.1 CIII

Specifications subject to change without notice.



HDR 1000 PLUS WELL CHAMBER REF 90008

