



VERSATILE, COMPREHENSIVE

The most complete line of source holders for calibrating high and low dose rate iridium, palladium and iodine isotopes

IRIDIUM 192 SOURCE HOLDERS

HDR IRIDIUM SOURCES

The high dose rate iridium source holder has a 2.2 mm opening for the catheter. A rubber O-ring secures the catheter with a uniform constricting pressure to prevent catheter movement. The calibration procedure is easy and uncomplicated, and the time required for calibration is a fraction of that required for thimble ion chamber techniques.

ORDERING INFORMATION

HDR 1000 PLUS REF 70010
IVB 1000 REF 70044



HDR ¹⁹²Ir QUALITY ASSURANCE TOOL

The HDR ¹⁹²Ir Quality Assurance Tool performs crucial tests of ¹⁹²Ir sources including source positioning within 0.3 mm, timer accuracy, and consistency of source activity. Tests can be completed in as little as 15 minutes and require no films or development procedures.

Medical Physics. 22(4): 435-440, 1995

ORDERING INFORMATION

HDR 1000 PLUS REF 70008



LDR Iridium SOURCES

The LDR iridium source holder REF 70009 features a 3 mm diameter acrylic tube which extends from the top of the insert to the most active area of the HDR 1000 Plus Well Chamber. It makes one loop at the active area and extends back to the top of the insert. A collective calibration of the entire ribbon of seeds is obtained. Fourteen iridium seeds spaced one centimeter center to center fit into the active area.

The LDR Iridium source holder REF 70034 centers a source train in the active area of the IVB 1000 Well Chamber for measurement. Source holder collar is adjusted to accommodate the number of seeds in the source to be measured. Collar is adjustable to measure 6, 10, 14 18 or 22 seeds.



ORDERING INFORMATION

HDR 1000 PLUS REF 70009

IVB 1000 REF 70034

SINGLE LDR SEED SOURCES

The single LDR seed source holder features a 1.2 mm inner diameter tube which positions an individual iodine, palladium, iridium or gold seed at the most sensitive area of the well chamber. The smooth tube allows easy removal of the seed. This source holder can be calibrated for several iodine and palladium isotopes. Only one source holder needs to be purchased for multiple calibrations.



ORDERING INFORMATION

HDR 1000 PLUS REF 70016

IVB 1000 REF 70043

IRIDIUM PIN SOURCE HOLDER

The Iridium Pin Source Holder is designed to accommodate three different sized iridium wire pins, such as models IRF-1, IRF-2, IREC-2, and IREL-2 manufactured by BEBIG gmbH, Berlin, Germany. Place the source holder into the HDR 1000 Plus Well Chamber to perform proper and repeatable QA measurement.



ORDERING INFORMATION

HDR 1000 PLUS REF 70095



VERSATILE, COMPREHENSIVE

The most complete line of source holders for calibrating cesium isotopes

CESIUM SOURCE HOLDERS

CESIUM SOURCES

Commonly used with manually loaded cesium sources, this source holder has a 5.0 mm diameter opening. A spacer within the source holder positions the cesium insert at the most active area of the chamber. The spacer for positioning the cesium source is removable so the insert can also be used with longer cesium sources and larger HDR ¹⁹²Ir catheters.



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HDR1000 PLUS REF 70020
IVB 1000 REF 70045

CESIUM REMOTE AFTER-LOADING SOURCES

Designed for use with LDR remote after-loading treatment systems, this source holder has a 7.1 mm diameter opening. There is no spacer because the after-loading system positions the source. This insert can also be used with cobalt sources used in some LDR remote after-loading treatment systems.



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HDR1000 PLUS REF 70003
IVB 1000 REF 70046



APPLICATOR VERIFICATION

The Leipzig Applicator Source Holder facilitates fast, routine output verification of the six Leipzig Applicators



LEIPZIG APPLICATOR SOURCE HOLDER

FAST OUTPUT VERIFICATION

Use your HDR 1000 Plus Well Chamber to quickly provide the required output of Leipzig Applicators prior to clinical use.

COMPLETE CALIBRATION SYSTEM

The Leipzig Applicator Source Holder, when used with the Standard Imaging HDR 1000 Plus Well Chamber and an HDR Iridium Source Holder with an ADCL calibration, creates a complete calibration system for measuring the output of the six Leipzig Applicators prior to clinical use. No additional equipment is needed to verify output measurements with published correlation factors.



ORDERING INFORMATION

LEIPZIG APPLICATOR SOURCE HOLDER REF 70031

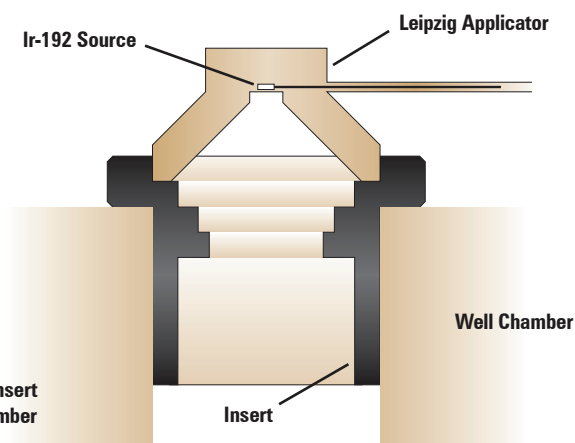


Diagram showing a Leipzig Applicator and Insert being used with the HDR 1000 Plus Well Chamber



VERSATILE, COMPREHENSIVE

The most complete line of source holders for calibrating iodine and palladium isotopes

IODINE AND PALLADIUM SOURCE HOLDERS



SINGLE LDR SEED SOURCES

The single LDR seed source holder features a 1.2 mm inner diameter tube which positions an individual iodine, palladium, iridium or gold seed at the most sensitive area of the well chamber. The smooth tube allows easy removal of the seed. This source holder can be calibrated for several iodine and palladium isotopes. Only one source holder needs to be purchased for multiple calibrations.

ORDERING INFORMATION

HDR1000 PLUS REF 70016
IVB 1000 REF 70043

SEED BATCH ASSAY TOOL

The seed batch assay tool is designed to provide multiple seed measurements for up to 500 of the iodine or palladium seeds typically used for prostate cancer treatment. Source holder positions seeds at the most sensitive area of the HDR 1000 Plus Well Chamber.

Medical Physics. 22(9):1495-1497, 1995

ORDERING INFORMATION

HDR 1000 PLUS REF 70022



IBT INTERSTRAND® SOURCES

The IBt InterStrand source holder is designed for QA measurements of International Brachytherapy InterStrand source trains. The train consists of ten InterSource® 103Pd seeds or ten InterSource 125I seeds, with an absorbable suture contained within the open annulus of each seed. The InterStrand stainless steel shielding container connects to the top of the source holder for easy transfer of the InterStrand to the source holder for measurement.

ORDERING INFORMATION

IVB 1000 REF 70049



IODINE AND PALLADIUM SOURCE HOLDERS continued

PRELOADED NEEDLE SOURCES

Allows calibration and visual verification of a sterilized needle filled with seeds and spacers. A universal luer lock mates to the needle through an adjustable needle hub to needle opening interface offering seamless integration from seeds to the needle. Source trains of one to ten seeds may be verified and calibrated while maintaining sterility.

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IVB 1000 REF 70051



BARD® EXPRESS™ SEEDING CARTRIDGE

Positions loaded cartridges at the most sensitive position of the HDR 1000 Plus Well chamber, providing a check of the relative activity of the seed held within the cartridge. Source holder accommodates Bard EXPRESS Seeding Cartridges with 2 to 6 seeds and can be gas or steam sterilized.

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HDR 1000 PLUS REF 70032



MICK® CARTRIDGE SOURCES

The Mick Cartridge source holder provides a consistency QA check of the activity of seeds loaded into a Mick cartridge. Source holder positions the cartridge for a quick, reproducible measurement. Spring loaded clamp attachment quickly grips cartridge to minimize finger dose. (Mick Cartridge source holder) can also be used with the Oncura Sterile Convenience Pack.

ORDERING INFORMATION

HDR 1000 PLUS REF 70024
IVB 1000 REF 70047



RAPID STRAND® IODINE SEED SOURCES

The RAPID Strand iodine seed source holder provides a fast and convenient method to perform a quality assurance measurement of the I-125 RAPID Strand under sterile conditions. The source holder for the IVB 1000 Well Chamber is constructed to simultaneously measure the ten* 6711 seeds in the strand (the source holder for the HDR 1000 Plus Well Chamber measures 5 seeds at a time.) A correction factor has been determined to calculate the activity.

IJRODBP 41(1):217-222, 1998

ORDERING INFORMATION

HDR 1000 PLUS REF 70023
IVB 1000 REF 70048



NUCLETRON SELECTSEED™ SOURCES

Source holder connects to the Nucletron seedSelectron® to center a source in the active area of the HDR 1000 Plus Well Chamber for measurement.

ORDERING INFORMATION

HDR 1000 PLUS REF 70030





VERSATILE, COMPREHENSIVE

The most complete line of tools for calibrating $^{90}\text{Sr}/^{90}\text{Y}$, Metastron[®], and Samarium isotopes

BETA EMITTER SOURCE HOLDERS

NOVOSTE™ $^{90}\text{Sr}/^{90}\text{Y}$ IVB SOURCES

The Novoste™ $^{90}\text{Sr}/^{90}\text{Y}$ IVB source holder centers the source in the active area of the IVB 1000 Well Chamber for measurement. The collar is adjustable for sources of 30, 40, and 60 mm lengths. Source holder accommodates both 3.5 and 5.0 mm French catheters.

ORDERING INFORMATION

IVB 1000 REF 70036



X-RAY CONTAMINATION TEST TOOL

The X-Ray contamination test tool is designed for used with $^{90}\text{Sr}/^{90}\text{Y}$ sources only. It consists of a 7 mm thick wall of Delrin that absorbs nearly all of the beta particles. It allows only the bremsstrahlung radiation to pass through the source holder for measurement.

ORDERING INFORMATION

IVB 1000 REF 70042



SYRINGE HOLDERS

The syringe holder provides a quick and convenient QA measurement of METASTRON® ⁸⁹Sr, ¹⁵³Sm, and ¹³¹I vials and most liquids in a 5 cc or 10 cc syringe. Syringe Holder REF 70026 includes one 5 cc syringe and one 10 cc syringe.



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HDR 1000 PLUS REF 70026

IVB 1000 REF 70026

Source Holder Product Matrix

SOURCE HOLDER	HDR 1000 Plus REF	IVB 1000 REF	Isotope	ADCL Calibration Available
HDR Iridium	70010	70044	HDR Iridium	yes
QA Tool Insert	70008	none	HDR Iridium	no
Cesium, 5 mm	70020	70045	Cesium	yes
Cesium, 7.1 mm	70003	70046	Cesium	yes
LDR Iridium Ribbons	70009	70034	LDR Iridium	yes
LDR Iridium Wire	none	70034	Iridium Wire	no
Single LDR Seeds	70016	70043	Iridium, Iodine, Palladium	yes
LDR Seed Batch Assay Tool	70022	none	Iodine, Palladium	no
IBt InterStrand®	none	70049	Iodine, Palladium	no
Preloaded Needle	none	70051	Iodine, Palladium	no
Bard® EXPRESS Seeding Cartridge	70032	none	Iodine, Palladium	no
Mick® Cartridge	70024	70047	Iodine, Palladium	no
I-125 RAPID Strand®	70023	70048	Iodine	no
Nucletron selectSeed™ I-125 Source	70030	none	Iodine	yes
Novoste ⁹⁰ Sr/ ⁹⁰ Y IVB Sources	none	70036	⁹⁰ Sr/ ⁹⁰ Y	yes
X-Ray Contamination Test Tool	none	70042	⁹⁰ Sr/ ⁹⁰ Y	no
Syringe Holder	70026	70026	Metastron®, Samarium	no

NOTE: One source holder may have several calibrations associated with it. For example, a source holder for Single LDR Seeds (REF 70016 and 70043) may have calibrations for iodine, palladium and LDR iridium.