

# X-Ray Contamination Test Tool

For Testing Intravascular Brachytherapy  $^{90}\text{Sr}/^{90}\text{Y}$  Sources

**The X-Ray Contamination Test Tool, REF 70042, used with the IVB 1000 Well Chamber, provides a quick quality assurance check of the bremsstrahlung component of a  $^{90}\text{Sr}/^{90}\text{Y}$  Source. It is used in conjunction with REF 70036, Source Holder for  $^{90}\text{Sr}/^{90}\text{Y}$ .**



This test tool, intended to detect x-ray contamination in your source, is made with a 7 mm plastic wall thickness. This specific wall thickness will absorb essentially all of the beta radiation, while allowing the bremsstrahlung radiation to pass through the source holder for measurement.

For a specific source train, the ratio derived by comparing the reading from a 70042 Source Holder to that from a 70036 Source Holder for  $^{90}\text{Sr}/^{90}\text{Y}$  should be fairly constant. Both source holders are used with the IVB 1000 Well Chamber and an appropriate electrometer.

From left to right, the X-Ray Contamination Test Tool (REF 70042), Source Holder for  $^{90}\text{Sr}/^{90}\text{Y}$  (REF 70036) and the IVB Well Chamber (REF 90009)

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