

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation



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CALIBRATION LABORATORIES

NVLAP LAB CODE 200370-0

MDS NORDION DOSIMETRY LABORATORY

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IONIZING RADIATION DOSIMETRY

NVLAP Code: 20/I02
High-Dose Dosimetry

Evaluation of Transfer-standard and Reference-standard Dosimeters for Production Irradiators

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
.5 to 50 kGy	4.0 %	Results reported as absorbed dose.

Evaluation of Transfer-standard and Reference-standard Dosimeters for Research Irradiators

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
20 to 400 Gy	2.0 %	Results reported as absorbed dose or absorbed-dose rate.

March 31, 2005

Effective through

A handwritten signature in black ink, appearing to read 'William R. Muhl', is written over a horizontal line.

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Irradiation of Dosimeters for Known Absorbed-dose Levels

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
Specified by the needs of the customer.	2.3 %	Results reported as absorbed-dose values or may be analyzed for dosimeter response and reported as a calibration curve.

Calibration of Routine Dosimeters using Reference-standard or Transfer-standard Dosimeters

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
0.5 to 50 kGy	4.0 %	Results reported as absorbed-dose values or may be analyzed for dosimeter response and reported as a calibration curve.

1. Represents an expanded uncertainty using a coverage factor, $k=2$.

March 31, 2005

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