



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200370-0

IONIZING RADIATION DOSIMETRY

NVLAP Code: 20/102

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>
0.5 kGy to 50 kGy (Ceric Cerous)	3.6 %	Results reported as absorbed dose.
20 Gy to 80 kGy (Alanine)	2.6 %	Results reported as absorbed dose.

Irradiation of Dosimeters for Known Absorbed-dose Levels

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
10 Gy to 250 kGy	2.2 %	Results reported as absorbed-dose values or may be analyzed for dosimeter response and reported as a calibration curve.

2011-04-01 through 2012-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



CALIBRATION LABORATORIES

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

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
20 Gy to 80 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, $k = 2$, at an approximate level of confidence of 95 %.

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