DOSIMETRY PRODUCTS & SERVICES

2019 PRICE LIST
Dosimetry Products & Services

Dosimetry and Calibration Products and Services

All prices are in Canadian Dollars.

Delivery for most items is 6 weeks subject to confirmation at time of order.

Nordion’s Dosimetry Laboratory is ISO 17025 accredited for the following services:

• The calibration of routine dosimeters against Alanine reference-standard dosimeters.
• The evaluation of Alanine reference-standard dosimeters.
• The irradiation of customer-supplied dosimeters to known doses.
### Dosimetry and Calibration Services

#### 1. Supply and Reading of Dosimeters

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<thead>
<tr>
<th>NUMBER</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>10094113</td>
<td>Supply and Reading of Alanine Dosimeters</td>
<td>$390.00 per dosimeter</td>
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</tbody>
</table>

Includes:
- Supply and reading of each dosimeter
- NVLAP Lab Code 200370-0 Certificate of Measurement (Alanine measured dose)
- Standard Control package (shipped with package for QC)

Note:
- Minimum order: 7 dosimeters
- Dose range: 20 Gy to 80 kGy
- This measurement service by Nordion is accredited under NIST's NVLAP Lab Code 200370-0

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#### 2. Irradiation of Dosimeters

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<tr>
<th>NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>10009995</td>
<td>Irradiation of Dosimeters</td>
<td>$2,400.00 for first dose point $390.00 for each additional dose point</td>
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</tbody>
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Includes:
- Irradiation of dosimeters (e.g. Harwell, Alanine in pellet or film format, Red Perspex, Amber Perspex, FWT-60 radiochromic film, Optichromic) to specified absorbed doses in Nordion's standard cobalt 60 radiation field GC220 at a customer-specified constant temperature
- NVLAP Lab Code 200370-0 Certificate of Accuracy supplied with return of dosimeters to customer

Customer to specify:
- Number of dose points
- Number of dosimeters (maximum 10) for each dose point
- Irradiation temperature in degrees C

Note:
- Specified doses up to 250 kGy
- Specified irradiation temperature to be between +4°C and +60°C
- Each dosimeter must fit into a 12mm (0.5 inches) diameter cylinder with maximum height of 75mm (3 inches)
- This irradiation service by Nordion is accredited under NIST's NVLAP Lab Code 200370-0
## Dosimetry and Calibration Services

### 3. In-Plant Calibration

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<tbody>
<tr>
<td>10094114</td>
<td>Routine Dosimetry System In Plant Calibration Service – Alanine Dosimeters</td>
<td>$6,485.00 per batch of dosimeters</td>
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</tbody>
</table>

**Includes:**
- Supply of 10 Calibration packages, each package containing 2 high-dose Alanine dosimeters and 1 temperature strip for measurement of maximum irradiation temperature
- Standard Control Package (for Nordion QC)
- Determination of calibration curve for routine dosimetry system for 1 spectrophotometer
- NVLAP Lab Code 200370-0 Certificate of Calibration for the routine dosimetry system
- NVLAP Lab Code 200370-0 Certificate of Measurement (Alanine measured dose)

**Plus:**
- Review of readings obtained by customer for the irradiated routine dosimeters
- Analysis of dosimetry data

**Note:**
- Temperature range between 10°C and 60°C
- This calibration service by Nordion is accredited under NIST’s NVLAP Lab Code 200370-0

### 4. Additional In-Plant Calibration

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<tr>
<th>NUMBER</th>
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<tbody>
<tr>
<td>10009997</td>
<td>Additional In-Plant Calibrations – In-Plant Calibration Service</td>
<td>$1,630.00 per additional calibration curve</td>
</tr>
</tbody>
</table>

**Includes:**
- Supply of one additional calibration curve

**Note:**
- This service is additional to Routine Dosimetry System In Plant Calibration Service
- This calibration service by Nordion is accredited under NIST’s NVLAP Lab Code 200370-0
## Dosimetry and Calibration Services

### 5. Absorbed Dose Mapping

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<tbody>
<tr>
<td>10094112</td>
<td>Absorbed Dose Mapping for a Production Irradiator – Alanine</td>
<td>$16,225.00*</td>
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**Includes:**
- Dose mapping service for 1 production irradiator using 1 batch of customer supplied routine dosimeters, read on a maximum of 2 spectrophotometers
- Nordion will provide procedures for performing absorbed dose mapping
- Dosimeter packages consisting of Alanine dosimeters and temperature strips (the customer adds 4 routine dosimeters)
- Analysis of customer's routine dosimeter readings done at the customer's site by customer's technicians
- Dosimetry Report prepared by Nordion

**Additional Customer Responsibilities:**
- Provide all routine dosimeters
- Provide phantom material or homogeneous actual product which occupies the design limit of the carrier (or close to the design limit)
- Ensure that dosimetry can be done on a schedule that is agreed to by Nordion
- Ensure availability of sufficient resources for loading product, operating the irradiator, and loading/retrieving dosimeters

**Note:**
- This dose mapping service by Nordion is accredited under NIST's NVLAP Lab Code 200370-0

*Per absorbed dose mapping service (if performed in conjunction with a source loading). Expenses charged as incurred if not performed with a source loading.
## Dosimetry and Calibration Products

1. Compu-dose System

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<tr>
<td>10009980</td>
<td>Compu-Dose System</td>
<td>$17,535.00</td>
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Includes:
- Electrochemical Cell
- Multimeter (3MOS2526)
- 500 High Dose Range (5 to 50 kGy) Ceric-Cerous dosimeters (including 30 irradiated standards: 10@ 15, 10 @ 25, 10 @ 35 kGy)
- Compu-Dose Manual (IN/OM 0312 CDOSE)
- Certificate of Calibration (for Ceric-Cerous batch)
- Certificate of Accuracy (for Ceric-Cerous irradiated standards)
- Electrochemical Cell Set-up Instructions and Certificate of Acceptance
- Compu-dose software, PC software including data set for converting multimeter readings to dose (kGy)

Note:
- Special order standards available at extra cost (refer to 10009983)

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<tr>
<td>10094115</td>
<td>Compu-Dose Software</td>
<td>$4,095.00</td>
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Includes:
- Software on USB memory stick (includes data set for converting multimeter reading to dose – kGy)
- Certificate of validation

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<tr>
<td>H101402001</td>
<td>Replacement Electrochemical Cell</td>
<td>$5,250.00</td>
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Includes:
- Compu-Dose glass cell
Nordion, a Sotera Health company, has been a leading provider of gamma technologies to global customers for more than 70 years. By delivering safe, high-quality products to our customers, we play a critical role in Safeguarding Global Health™. Our products benefit the lives of millions of people in countries around the world—and that is our core purpose. To improve the health and well-being of our global citizens.

www.nordion.com