



Nordion®

A Sotera Health company

DOSIMETRY
PRODUCTS & SERVICES

2018 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 accredited under NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for the following services:

- The calibration of routine dosimeters against Ceric-Cerous or Alanine reference-standard dosimeters.
- The evaluation of Ceric-Cerous or Alanine reference-standard dosimeters.
- The irradiation of customer-supplied dosimeters to known doses.

A NVLAP Lab Code 200370-0 Certificate is provided with all accredited services. Refer to <http://ts.nist.gov/standards/scopes/ionra.htm>.



Dosimetry and Calibration Services

1. Supply and Reading of Dosimeters

NUMBER	DESCRIPTION	PRICE
10009991	Supply and Reading of High Dose Range Ceric-Cerous Dosimeters	\$370.00 per dosimeter
	Includes: <ul style="list-style-type: none"> – Supply and reading of each dosimeter – NVLAP Lab Code 200370-0 Certificate of Measurement (Ceric-Cerous measured dose) – Standard Control package (shipped with package for QC) 	
	Note: <ul style="list-style-type: none"> – Minimum order: 7 dosimeters – Dose range: 5 to 50 kGy – This measurement service by Nordion is accredited under NIST’s NVLAP Lab Code 200370-0 	
10094113	Supply and Reading of Alanine Dosimeters	\$370.00 per dosimeter
	Includes: <ul style="list-style-type: none"> – 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: <ul style="list-style-type: none"> – 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 	

Dosimetry and Calibration Services

2. Irradiation of Dosimeters

NUMBER	DESCRIPTION	PRICE
10009995	Irradiation of Dosimeters	\$735.00 per dose point
	<p>Includes:</p> <ul style="list-style-type: none"> – 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 	
	<p>Customer to specify:</p> <ul style="list-style-type: none"> – Number of dose points – Number of dosimeters (maximum 10) for each dose point – Irradiation temperature in degrees C 	
	<p>Note:</p> <ul style="list-style-type: none"> – 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

NUMBER	DESCRIPTION	PRICE
10009996	Routine Dosimetry System In Plant Calibration Service – High Dose Dosimeters – Ceric-Cerous	\$6,485.00 per batch of dosimeters
	<p>Includes:</p> <ul style="list-style-type: none"> – Supply of 10 Calibration packages, each package containing 2 high-dose Ceric-Cerous 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 (Ceric-Cerous measured dose) 	
	<p>Plus:</p> <ul style="list-style-type: none"> – Review of readings obtained by customer for the irradiated routine dosimeters – Analysis of dosimetry data 	
	<p>Note:</p> <ul style="list-style-type: none"> – Temperature range between 10°C and 60°C – This calibration service by Nordion is accredited under NIST's NVLAP Lab Code 200370-0 	
10094114	Routine Dosimetry System In Plant Calibration Service – Alanine Dosimeters	\$6,485.00 per batch of dosimeters
	<p>Includes:</p> <ul style="list-style-type: none"> – Supply of 10 Calibration packages, each package containing 2 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) 	
	<p>Plus:</p> <ul style="list-style-type: none"> – Review of readings obtained by customer for the irradiated routine dosimeters – Analysis of dosimetry data 	
	<p>Note:</p> <ul style="list-style-type: none"> – Temperature range between 10°C and 60°C – This calibration service by Nordion is accredited under NIST's NVLAP Lab Code 200370-0 	

Dosimetry and Calibration Services

4. Additional In-Plant Calibration

NUMBER	DESCRIPTION	PRICE
10009997	Additional In-Plant Calibrations – In-Plant Calibration Service	\$1,630.00 per additional calibration curve
	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

NUMBER	DESCRIPTION	PRICE
10093660	Absorbed Dose Mapping for a Production Irradiator – Ceric-Cerous	\$16,225.00*
	<p>Includes:</p> <ul style="list-style-type: none"> – 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 Ceric-Cerous 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 	
	<p>Additional Customer Responsibilities:</p> <ul style="list-style-type: none"> – 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 	
	<p>Note:</p> <ul style="list-style-type: none"> – This dose mapping service by Nordion is accredited under NIST’s NVLAP Lab Code 200370-0 	
10094112	Absorbed Dose Mapping for a Production Irradiator – Alanine	\$16,225.00*
	<p>Includes:</p> <ul style="list-style-type: none"> – 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 	
	<p>Additional Customer Responsibilities:</p> <ul style="list-style-type: none"> – 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 	
	<p>Note:</p> <ul style="list-style-type: none"> – 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

NUMBER	DESCRIPTION	PRICE
10009980	Compu-Dose System	\$17,535.00
	Includes: <ul style="list-style-type: none"> – Electrochemical Cell – Multimeter (3M052526) – 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: <ul style="list-style-type: none"> – Special order standards available at extra cost (refer to 10009983) 	
10094115	Compu-Dose Software	\$4,095.00
	Includes: <ul style="list-style-type: none"> – Software on USB memory stick (includes data set for converting multimeter reading to dose – kGy) – Certificate of validation 	
H101402001	Replacement Electrochemical Cell	\$5,250.00
	Includes: <ul style="list-style-type: none"> – Compu-Dose glass cell 	

Dosimetry and Calibration Products

2. Ceric-Cerous Dosimeters

NUMBER	DESCRIPTION	PRICE
10009982	High Dose Range (5 to 50 kGy) Ceric-Cerous Dosimeters	\$1,180.00 per 100
	Includes: <ul style="list-style-type: none"> – 100 high dose range dosimeters (including 6 irradiated standards: 2 @ 15, 2 @ 25, 2 @ 35 kGy) – Data Set for converting multimeter readings to dose (kGy) – NVLAP Lab Code 200370-0 Certificate of Calibration (for Ceric-Cerous batch) – NVLAP Lab Code 200370-0 Certificate of Accuracy (for Ceric-Cerous irradiated standards) 	
	Note: <ul style="list-style-type: none"> – Special order standards available at extra cost (refer to 10009983) 	

3. Irradiation Standards

NUMBER	DESCRIPTION	PRICE
10009983	High Dose Range (5 to 50 kGy) Ceric-Cerous	\$895.00 per batch of 10 standards
	Includes: <ul style="list-style-type: none"> – 10 dosimeters at 1 dose level as specified by customer 	
	Note: <ul style="list-style-type: none"> – Nordion manufactures new batches as required and therefore cannot guarantee availability of a specific batch – Certificate of accuracy 	

Please note:

1. LR CCD products have been discontinued.
2. Transfer standards using Alanine may be substituted for SUPPLY AND READING OF DOSIMETERS and for IN-PLANT CALIBRATIONS.



Nordion, a Sotera Health company, is a leading provider of medical isotopes and gamma technologies used for the prevention, diagnosis and treatment of disease and infection. Nordion's products are used daily by pharmaceutical and biotechnology companies, medical-device manufacturers, hospitals, clinics and research laboratories. Nordion supplies products to more than 40 countries around the world, and is committed to their mission, Safeguarding Global Health™ with every critical isotope they supply.

www.nordion.com

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