



Nordion®

A Sotera Health company

Nordion Dosimetry Services

Providing Confidence in Your Dosimetry Calibration

As an accredited ISO/IEC 17025 calibration facility, you are assured that Nordion operates at the international industry standard for testing and calibration. We work closely with the National Laboratories to ensure that our methods are the same ones used by the primary National Standards. We are committed to support the Radiation Processing industry through calibration by maintaining a Radiation Standard Dose Field and accredited dosimetry measurement facilities.

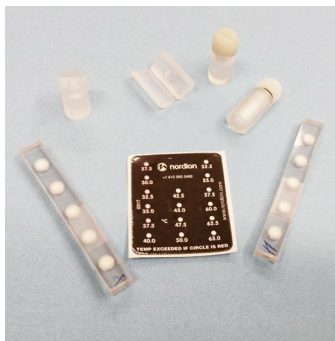
Our services include:

- Cobalt-60 irradiation
- Transfer standard measurements
- In-Plant calibration
- Consulting

At Nordion, our physicists and materials experts have years of experience working with gamma irradiation to achieve the product goals of organizations working in the medical device, pharmaceutical, food safety and high-performance materials industries.

Cobalt-60 Irradiation Service

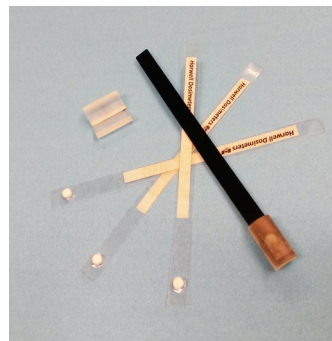
Using the Nordion Gammacell, uniquely designed stands and holders to accommodate either film, pellet, or tape tab style dosimeters, our dosimetry experts can irradiate the dosimeters in our standard dose field with temperature control in the range 0-60°C with $\pm 1^\circ\text{C}$ precision.



Nordion's holders and temperature strips



Alanine holder and pellets

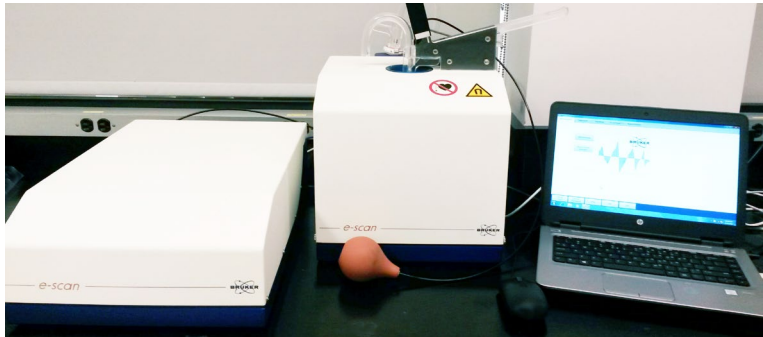


Nordion has designed tape tab holders to ensure the proper dose is delivered to the alanine pellet

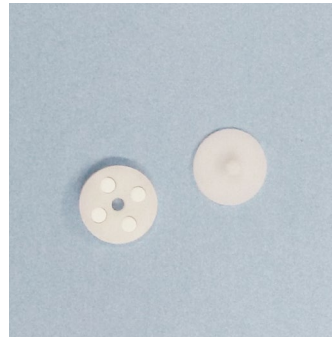


Dose Measurement Service

Nordion uses alanine pellets as a transfer dosimeter. Our dosimetry experts will send you a controlled set of dosimeters that you can irradiate to meet your needs. When returned to Nordion, we will provide you with an accredited dose reading.



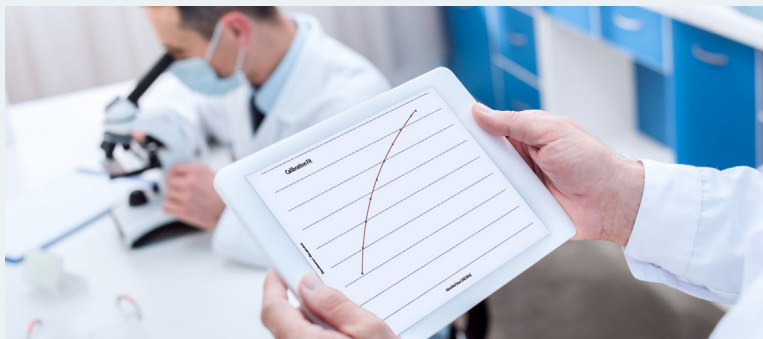
Nordion's ISO/IEC 17025 accredited alanine EPR reader system



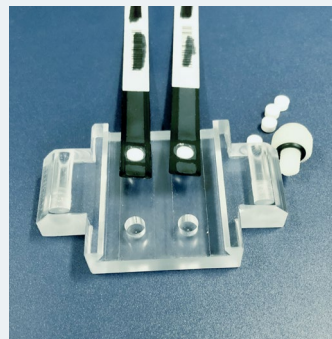
Nordion holder for e-beam irradiations

In-Plant Calibration Service

Nordion will provide the transfer dosimeters and you co-irradiate them with your dosimeters. Return the samples with your results and let Nordion's experts prepare the report. Nordion will provide you with the analysis, including the best fit calibration curve, uncertainties, and look-up table all under our ISO/IEC 17025 accreditation.



Example calibration curve



Nordion In-Plant holder

Other Dosimetry Services

- Our materials experts can help you with testing the products and determining your dose requirements
- Dose mapping
- Consulting services
- Alanine dosimetry:
 - Gamma irradiation
 - E-beam irradiation
 - X-ray irradiation

Next Steps

Let's discuss how we can work together to achieve your dosimetry goals.



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