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Eberline Analytical Corporation

Source Manufacturing Laboratory

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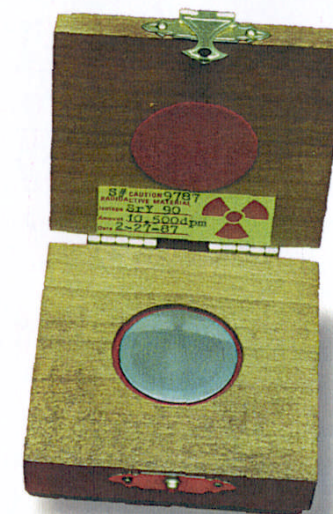


EBERLINE
SERVICES

7021 Pan American Freeway NE
Albuquerque, New Mexico 87109

RADIOACTIVE SOURCES

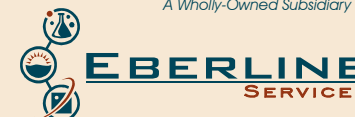
Offering radioactive source products in a variety of isotopes, sizes, shapes, and activity levels



We specialize in responding to customized and unique source requirements.

EBERLINE ANALYTICAL CORPORATION

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Radioactive Sources and Standards

Eberline Analytical Corporation has commercially manufactured radioactive check sources and standards for more than 40 years. Through the process of electrodeposition, each source is uniformly coated with radionuclides on metallic substrates. Each source's level of activity is highly controlled, assuring years of quality use. We offer many matrices for delivery, including:

- Encapsulation
- Surface deposition with fixation.

High-Quality Source Fabrication

To ensure adherence to nickel and stainless steel substrates, we prepare the surface of each source with precision. The substrate is carefully cleaned, followed by a high-quality final polish. Through many years of scientific research, we have developed platinum electrode plating cells for manufacturing the sources. Several different types of cells are required for the variety of radionuclides and source configurations. We utilize proprietary processes to fix the surface activity, retain uniform distribution, and minimize both self-absorption and degradation of the spectrum.



Other fabrication methods have also allowed for the development of complete sets of calibration and check sources. Gamma ray sources are assembled through either single or double encapsulation. Beta sources with high energies can be supplied under thin mylar lamination. Other isotopes can be directly deposited on the substrate and heat treated for fixation. Each source or source set is stored in an easy-to-open, custom-manufactured wooden box.

Wide Range of Sources Available

Eberline Analytical Corporation offers final source products in several sizes, shapes, and activity levels. Clip-mounted sources are also available for attachment to probes and detectors from portable monitoring instruments.

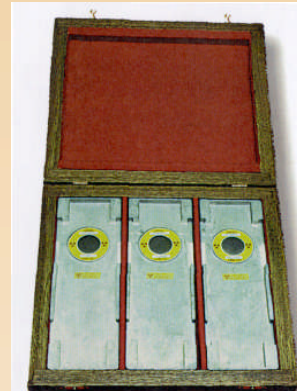
Source sets are available for specific applications. Alpha and beta sources are provided in sets of two to four each, with activity rates appropriate for calibrating certain radiation monitors. Other sets provide combinations for alpha, beta, and gamma radiation.

We specialize in responding to customized and unique source requirements. We have prepared electroplated stable and radioactive isotopes for accelerators, radiobiological dosimetry, and biochemical polymerization studies.



Isotopes Routinely Available

- ^{60}Co
- ^{90}SrY
- ^{99}Tc
- ^{133}Ba
- ^{137}Cs
- ^{230}Th
- ^{239}Pu
- ^{241}Am
- Depleted uranium slab.



Quality Assurance

Eberline Analytical Corporation has a rigid quality assurance program that ensures the production of accurate and precise sources. The calibration of our sources and standards is traceable to the U.S. Department of Commerce National Institute of Standards and Technology (NIST).

Our calibration detectors have more than 14 years of continuous traceability to the NIST. Manufacturing procedures and specification sheets for sealed sources and devices are prepared for each specific source type. These documents are an integral part of Our quality assurance program, which is routinely audited by nuclear utilities, national laboratories, and several government agencies. Radionuclides used in the production of sources are of the highest radiochemical purity to ensure specific activities with minimal degradation.

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