

Beta/ Gamma Laminate Credit Card Sources

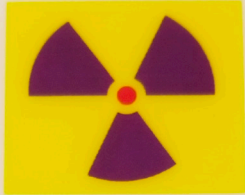
Laminated Sources

Spectrum Techniques

Laminate credit card sources offer a convenient alternative package which is easy to handle and store. Each source is constructed using 8 mil card stock and a laminate sleeve. The standard size is 3.75" x 2.25".

All beta/gamma laminate credit card sources have an uncertainty of $\pm 20\%$ of the labeled activity. Activities will not exceed the U.S. NRC Exempt Quantity limit.

Not available for calibration



Radioactive Material

Isotope	Cs-137
Activity	1 μ Ci
Half Life	30.1 yrs
Date	

Exempt Quantity from NRC and State Licenses

Spectrum Techniques
Oak Ridge, TN 37830

Available Nuclides and Activities

Nuclide	Minimum Activity	Maximum Activity
Barium 133	0.1 μ Ci (3.7 kBq)	10 μ Ci (370 kBq)
Cadmium 109	0.1 μ Ci (3.7 kBq)	10 μ Ci (370 kBq)
Cesium 137	0.05 μ Ci (1.85 kBq)	10 μ Ci (370 kBq)
Cobalt 57	0.1 μ Ci (3.7 kBq)	100 μ Ci (3700 kBq)
Cobalt 60	0.05 μ Ci (1.85 kBq)	1 μ Ci (37 kBq)
Europium 152	0.1 μ Ci (3.7 kBq)	1 μ Ci (37 kBq)
Manganese 54	0.1 μ Ci (3.7 kBq)	10 μ Ci (370 kBq)
Sodium 22	0.1 μ Ci (3.7 kBq)	10 μ Ci (370 kBq)
Strontium 90	0.05 μ Ci (1.85 kBq)	0.1 μ Ci (3.7 kBq)
Thallium 204	0.1 μ Ci (3.7 kBq)	10 μ Ci (370 kBq)
Zinc 65	0.1 μ Ci (3.7 kBq)	10 μ Ci (370 kBq)