Test Tube Sources
Spectrum Techniques

Beta/Gamma
BETA/GAMMA TEST TUBE SOURCES

Beta/Gamma test tube sources are designed for use as reference sources in well type detectors or clinical instruments. Each source is constructed using a capped 12 mm x 75 mm polypropylene tube.
The source material is deposited in the bottom of the tube and sealed using epoxy.
All beta/gamma test tube sources have an uncertainty of ± 20% of the labeled activity unless calibrated (± 5%) for an additional cost. Activities will not exceed the U.S. NRC Exempt Quantity limit.

Beta sources are not available for calibration

AVAILABLE NUCLIDES AND ACTIVITIES

Nuclide	Minimum Activity	Maximum Activity
Barium 133	0.1 µCi (3.7 kBq)	10 µCi (370 kBq)
Cadmium 109	0.1 µCi (3.7 kBq)	10 µCi (370 kBq)
Cesium 137	0.05 µCi (1.85 kBq)	10 µCi (370 kBq)
Cobalt 57	0.1 µCi (3.7 kBq)	100 µCi (3700 kBq)
Cobalt 60	0.05 µCi (1.85 kBq)	1 µCi (37 kBq)
Europium 152	0.1 µCi (3.7 kBq)	1 µCi (37 kBq)
Iodine 125	0.1 µCi (3.7 kBq)	1 µCi (37 kBq)
Manganese 54	0.1 µCi (3.7 kBq)	10 µCi (370 kBq)
Sodium 22	0.1 µCi (3.7 kBq)	10 µCi (370 kBq)
Strontium 90	0.05 µCi (1.85 kBq)	0.1 µCi (3.7 kBq)
Thallium 204	0.1 µCi (3.7 kBq)	10 µCi (370 kBq)
Zinc 65	0.1 µCi (3.7 kBq)	10 µCi (370 kBq)

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Test Tube Sources
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Mock Iodine 131
MOCK IODINE 131 TEST TUBE SOURCE

Due to its short half-life, iodine 131 (I-131) is not suitable for routine calibrations of detectors used to measure uptake. A mock iodine source, containing a mixture of cesium 137 and Ba-133, can provide a useful working life as well as a spectrum similar to that of I-131.

Cs-137, which has a gamma energy level at 662 keV, is used to match the 637 keV energy level of I-131. While there is also a gamma peak at 723 keV, most uptake measuring equipment cannot detect the difference between these two peaks. Ba-133, which has a gamma energy level at 356 keV, is used to match the 364 keV energy level of I-131.

Each source is constructed using a capped 12 mm x 75 mm polypropylene tube.

The source material is deposited in the bottom of the tube and sealed using epoxy.

All mock Iodine 131 test tube sources have an uncertainty of ± 20% of the labeled activity unless calibrated (± 5%) for an additional cost. Activities will not exceed the U.S. NRC Exempt Quantity limit.

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