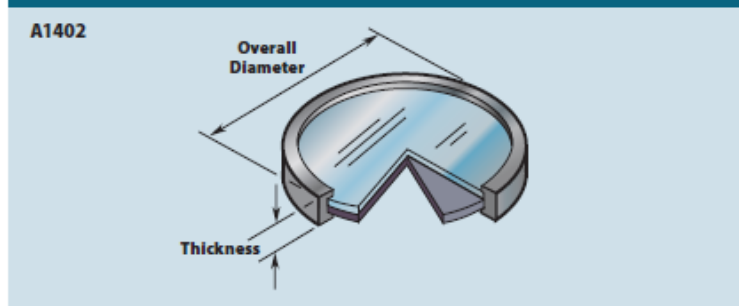


Ring and Disk—EAB-LB

EAB-LB disk standards are designed to check the performance and to determine the efficiency of low level counting systems such as proportional counters. The stainless steel disk containing the active element is surrounded by an aluminum ring which holds the window assembly in place.



Figure 57-A: LB Configuration



Overall Dimensions

X	Overall Diameter	Active Diameter	Height
47LB	1.85" (47 mm)	1.61" (41 mm)	0.125" (3.18 mm)
50LB	2.0" (50.8 mm)	1.77" (45 mm)	0.125" (3.18 mm)

Activities & Exceptions

Available Activities

5 nCi-100 nCi (185 Bq-3.7 kBq)

Exceptions

Cl-36	1 nCi-1.6 μCi (37 Bq-59.2 kBq)
U-235	1 nCi-25 nCi (37 Bq-92.5 Bq)
U-238	1 nCi-4 nCi (37 Bq-148 Bq)
U-238D	1 nCi-2 nCi (37 Bq-74 Bq)

Planar Calibration Standards—LB Configuration

Catalog Number	Nuclide	Half-Life	Principle Emissions (keV)	Nature of Active Material	Window
EAB-241-x	Americium-241 ⁽⁴⁾	432.17 y	5388, 5443, 5486 α	Electroplated onto Stainless Steel	None
EAB-014-x	Carbon-14	5730 y	156 β _{max}	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-137-x	Cesium-137	30.17 y	662, 1175 β _{max}	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-036-x	Chlorine-36	3.01 x 10 ⁵ y	1142 β _{max}	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-060-x	Cobalt-60	5.272 y	1173, 1332 ~300 β _{max}	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-125-x	Iodine-125 ⁽¹⁾	59.43 d	35.5, 27-32 K x-rays γ	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-129-x	Iodine-129	1.57 x 10 ⁷ y	40, 29-35 K x-rays γ	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-239-x	Plutonium-239 ⁽⁴⁾	2.411 x 10 ⁴ y	5105, 5143, 5156 α	Electroplated onto Stainless Steel	None
EAB-210-x	Polonium-210 ⁽²⁾	138.376 d	5304 α	Electroless Deposit onto Silver Substrate	None
EAB-147-x	Promethium-147	2.6234 y	225 β	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-131-x	Simulated Iodine-131	~5 y	356, 662 γ	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-090-x	Strontium 90/Yttrium-90 ⁽³⁾	28.5 y	Sr-90:546 β, Y-90:2282	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-099-x	Technetium-99 ⁽⁴⁾	2.13 x 10 ⁵ y	294 β	Electroplated onto Stainless Steel	None
EAB-204-x	Thallium-204	3.78 y	763 β	Deposited onto Polymeric Membrane	0.9 mg/cm ² Aluminized Mylar
EAB-230-x	Thorium-230 ⁽⁴⁾	7.54 x 10 ⁴ y	4621, 4688 α	Electroplated onto Stainless Steel	None
EAB-235-x	Uranium-235(beta from Pa-231) ⁽²⁾	7.037 x 10 ⁸ y	4215-4597 α	Electroplated onto Aluminum Substrate	100 μg/cm ² Acrylic
EAB-238-x	Uranium-238(Natural) ⁽²⁾	4.468 x 10 ⁹ y	4147, 4196(beta from Pa-234) α	Electroplated onto Aluminum Substrate	100 μg/cm ² Acrylic

We recommend an activity for each source to be nominally 20k dpm (9 nCi)

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