

Radioactive Sources for AN34 Experiments: July 15, 2014

Radioactive sources for ORTEC AN34 experiments are available from a variety of world-wide suppliers.

Sources should be ordered directly from the local supplier or the supplier's local agent in the country in which the sources will ultimately be used. This is because the local agent will be familiar and able to assist with the licensing requirements in the country of ultimate end use. ORTEC has agreements with two suppliers who are referred to in the source suppliers listing:

Spectrum Techniques (referred to as "ST")
106 Union Valley Road
Oak Ridge,
TN 37830 USA

Telephone: +1-865-482-9937

<http://www.spectrumtechniques.com>

Email Sales@SpectrumTechniques.com

Or contact Larry Web larry@spectrumtechniques.com

Eckert & Ziegler Reference & Calibration
(referred to as "E+Z")
1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318 USA

Telephone: +1-404-425-5068

<http://www.ezag.com>

E-mail: analytics@ezag.com

Or Contact Eric Brown Eric.Brown@ezag.com

The table below provides the supplier code, and vendor code for each source required, by experiment number. In every case, the relevant supplier should be contacted in the first instance to provide contact details for their local agent from whom the end user can obtain sources under the local licensing regulations. **ORTEC is happy to assist in this process if required but direct contact with the source vendor is the preferred route.**

Supplier	MODEL	VENDOR CODE	DESCRIPTION	EXPT #
ST	CO-60S	Co60S1	1microCi Co-60 Source	2
ST	ISO (CDRB1385)	ISO	CDRB1385 Isotope Generator, 10 µCi Cs-137/Ba-137	2
ST	RSS2	RSS2	Resolving Time set Split source Tl-204 5uCi 2ea	2
ST	GF-057-M-20	Co57S20	20microCi Co-57 Source	3
E+Z	GF-057-M-20	GF-057-M	20microCi Co-57 Source (Activity must be specified on purchase order)	3
ST	GF-137-M-5	Cs137S5	5microCi Cs-137 Source	3
ST	RSS8	RSS8	Set of eight gamma sources for scintillation spectrometry: Ba-133, Cd-109, Co-57, Co-60, Cs-137, Mn-54, Na-22, and an "unknown" (mixed Cs/Zn) source.	3
ST	ZN65S	ZN65S	1microCi Zn-65 Source	3
E+Z	AF200	AF200	Alpha Source Set: 0.1 µCi of 241Am, 0.01 µCi of 228Th and 0.01 µCi of 230Th	4
E+Z	AF-244-A2-0.1	AF-244-A2-0.1	0.1microCi Cm-244 Source	4
E+Z	AF-210-A	AF-210-A	1microCi Po-210 Source (Activity must be specified on purchase order)	5
E+Z	BF-113-A-1	BF-113-A	1microCi SN-113 Beta Source (Activity must be specified on purchase order)	6
E+Z	BF-137-A--0.1	BF-137-A	0.1microCi Cs-137 Beta Source (Activity must be specified on purchase order)	6
E+Z	BF-204-A-0.1	BF-204-A	0.1microCi Tl-204 Beta Source (Activity must be specified on purchase order)	6
E+Z	GF-057-M-20	GF-057-M	20microCi Co-57 Source (Activity must be specified on purchase order)	7
E+Z	GF-060-M-10	GF-060-M	10microCi Co-60 Source (Activity must be specified on purchase order)	7
E+Z	GF-137-M-20	GF-137-M	20microCi Cs-137 Source (Activity must be specified on purchase order)	7
E+Z	GF-228-D-10	GF-228-D	10 microCi Th-228 Source (Activity must be specified on purchase order)	7
E+Z	POSK-22-10	POSK-22	10 µCi Na-22 Source (Activity must be specified on purchase order)	7
E+Z	GF-055-M-10	GF-055-M	10microCi Fe-55 Source (Activity must be specified on purchase order)	8
ST	GF-057-M-20	Co57S20	20microCi Co-57 Source	8
E+Z	GF-057-M-20	GF-057-M	20microCi Co-57 Source (Activity must be specified on purchase order)	8
E+Z	GF-109-M-10	GF-109-M	10microCi Cd-109 Source	8
E+Z	GF-137-M-20	GF-137-M	20microCi Cs-137 Source	8
E+Z	GF-241-M-10	GF-241	10microCi Am-241 Source	8
E+Z	BF-060-5	BF-060-5	5 microCi Co-60 Beta Source	9
ST	CS-137S1	Cs137S1	1 µCi Cs-137 Source	10
ST	CS173-5M	CS730000005m	5-milliCi Cs-137 Source	10
ST	RSS8	RSS8	Set of eight gamma sources for scintillation spectrometry: Ba-133, Cd-109, Co-57, Co-60, Cs-137, Mn-54, Na-22, and an "unknown" (mixed Cs/Zn) source.	10

ST	ZN65S	ZN65S	1microCi Zn-65 Source	10
E+Z	GF-055-M-10	GF-055-M	10microCi Fe-55 Source (Activity must be specified on purchase order)	11
E+Z	GF-057-M-20	GF-057-M	20microCi Co-57 Source (Activity must be specified on purchase order)	11
E+Z	GF-109-M-10	GF-109-M	10microCi Cd-109 Source (Activity must be specified on purchase order)	11
ST	GF-137-M-5	CS137S5	5microCi Cs-137 Source	11
E+Z	GF-241-M-10	GF-241-M	10microCi Am-241 Source (Activity must be specified on purchase order)	11
ST	ZN65S	ZN65S	1microCi Zn-65 Source	11
E+Z	GF-022D-50	GF-022-D	50 µCi Na-22 Source (Activity must be specified on purchase order)	13
ST	GF-057-M-20	Co57S20	20microCi Co-57 Source	14
E+Z	GF-057-M-20	GF-057-M	20microCi Co-57 Source (Activity must be specified on purchase order)	14
ST	CO-60S1	CO60S1	1microCi Co-60 Source	19
E+Z	GF-060-D-100	GF-060-D	100microCi Co-60 Source (Activity must be specified on purchase order)	19
E+Z	AF-244-PM-0.1	AF-244-A2	0.1 µCi Cm-244 Source Thin window (Activity must be specified on purchase order)	20
ST	CS-137S1	Cs137S1	1 µCi Cs-137 Source	20
ST	GF-057-M-5	Co57S5	5 µCi Co-57 Source	20
ST	CS-137S1	Cs137S1	1 µCi Cs-137 Source	22
E+Z	BF-204-A-0.1	BF-204-A	0.1microCi Tl-204 Beta Source (Activity must be specified on purchase order)	24
E+Z	GF-137-M-25	GF-137-M	25 µCi Cs-137 Source (Activity must be specified on purchase order)	24
E+Z	GF-022D-50	GF-022-D	50 µCi Na-22 Source (Activity must be specified on purchase order)	25
ST	GF-060-M-10	GF-060-M	10 µCi Co-60 Source (Activity must be specified on purchase order)	27
E+Z	POSK-22-10	POSK-22	10 µCi Na-22 Source (Activity must be specified on purchase order)	27
ST	CD-109S1	Cd109S1	1microCi Cd-109 Source	3
ST	CO-57S1	Co57S1	1microCi Co-57 Source	3
E+Z	AM1A2100U	AM1A2100U	100microCi Am-241 Source	
ST	FE-55LDS100	Fe55S100	100microCi Fe-55 Source	
ST	FE55LMW10	Fe55S10	10microCi Fe-55 Source	
	SOURCE SETS			
ST	RSS2	RSS2	RESOLVING TIME SET - SPLIT SOURCE	
ST	RSS3	RSS3	SET OF 3 SOLID SOURCES: Po-210, Sr-90, & Co-60	
	RSS3EXP aka RSS3EU	RSS3EU	SET OF 3 SOLID SOURCES: Po-210,0.1uCi; Sr-90,0.1uCi & Co-60, 0.5uCi	
ST	RSS5	RSS5	SET OF 5 SOURCES: Po-210, Tl-204, Co-60, Cs-137	

ST	RSS5-EXP aka RSS5-EU	RSS5EU	NRC/IAEA/EU exempt quantity material Set, Alpha Po-210@0.1uCi, Beta Sr-90@0.1 uCi & TI-204@0.25uCi, Gamma Co-60@1.0uCi & Cs-137@0.25uCi	
ST	RSS8	RSS8	SET OF EIGHT GAMMA SOURCES F/SCINTILLATION SPECTROMETRY	3
ST	RSS8EXP AKA RSS8EU		NRC/IAEA/EU exempt quantity material S et rev 1, Bal 33, Cd 109, Co57, Co60, Mn54, Na22, Zn65@1.0uCi each and Cs137@0.25uCi	3
	RSS8UN	RSS8UN	NRC/IAEA/EU exempt quantity material S et rev 1, Bal 33, Cd 109, Co57, Co60, Mn54, Na22, Zn65@1.0uCi each and Cs137@0.1uCi	3
E+Z	BF-200	BF-200	Beta Source Set	