

Ionizing Radiation

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Ukraine, NSC IM (National Scientific Centre "Institute of Metrology")

No	NDETU / DETU	Number of CMCs	KCDB CMC ID	Quantity	Instrument or Artifact	Method of Measurement	Medium	Nuclide or source	Specification on nuclide or source	Measurand	Uncertainty	Reference Standard used in calibration	Source of traceability	Approval date	NMI Service Identifier
1	DETU 12-02-98	14	EURAMET-RI-UA-00000OVX-1	Activity per unit mass [Radioactivity]	Reference material: soils/sediments	HPGe spectrometer, balance	Reference material: soils/sediments	Eu-152	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.2 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2007
2			EURAMET-RI-UA-00000OYV-1	Activity per unit mass [Radioactivity]	Reference material: soils/sediments	HPGe spectrometer, balance	Reference material: soils/sediments	Cs-137	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.0 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2014
3			EURAMET-RI-UA-00000OVZ-1	Activity per unit mass [Radioactivity]	Reference material: flora	HPGe spectrometer, balance	Reference material: flora	Eu-152	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.2 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2008
4			EURAMET-RI-UA-00000OWO-1	Activity per unit mass [Radioactivity]	Reference material: flora	HPGe spectrometer, balance	Reference material: flora	Cs-137	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.0 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2015
5			EURAMET-RI-UA-00000OW1-1	Activity per unit mass [Radioactivity]	Liquid, single nuclide	HPGe spectrometer, balance	Liquid	Cs-137	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.0 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2009
6			EURAMET-RI-UA-00000OW2-1	Activity per unit mass [Radioactivity]	Liquid, single nuclide	HPGe spectrometer, balance	Liquid	Eu-152	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.2 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2002
7			EURAMET-RI-UA-00000OW3-1	Activity per unit mass [Radioactivity]	Reference material: other	HPGe spectrometer, balance	Reference material: other	Cs-137	Marinelli or cylindrical beaker, resin with Fe impurity, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.0 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2010
8			EURAMET-RI-UA-00000OW4-1	Activity per unit mass [Radioactivity]	Reference material: other	HPGe spectrometer, balance	Reference material: other	Eu-152	Marinelli or cylindrical beaker, resin with Fe impurity, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.2 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2003
9			EURAMET-RI-UA-00000OW5-1	Activity per unit mass [Radioactivity]	Reference material: food	HPGe spectrometer, balance	Reference material: food	Eu-152	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.2 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2004
10			EURAMET-RI-UA-00000OW6-1	Activity per unit mass [Radioactivity]	Reference material: food	HPGe spectrometer, balance	Reference material: food	Cs-137	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.0 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2011
11			EURAMET-RI-UA-00000OW7-1	Activity per unit mass [Radioactivity]	Reference material: water	HPGe spectrometer, balance	Reference material: water	Cs-137	Marinelli or cylindrical beaker	[0.01 , 100.0] Bq/g	4.0 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2012

12		EURAMET-RI-UA-00000OW8-1	Activity per unit mass [Radioactivity]	Reference material: water	HPGe spectrometer, balance	Reference material: water	Eu-152	Marinelli or cylindrical beaker	[0.01 , 100.0] Bq/g	4.2 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2005
13		EURAMET-RI-UA-00000OW9-1	Activity per unit mass [Radioactivity]	Reference material: biological material	HPGe spectrometer, balance	Reference material: biological materials	Eu-152	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.2 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2006
14		EURAMET-RI-UA-00000OWA-1	Activity per unit mass [Radioactivity]	Reference material: biological material	HPGe spectrometer, balance	Reference material: biological materials	Cs-137	Marinelli or cylindrical beaker, sample density from 0.9 g/cm ³ to 1.1 g/cm ³	[0.01 , 100.0] Bq/g	4.0 % (Relative)	Calibrated HPGe spectrometer using single nuclide solution, set of standard weights	VNIIM	2014-04-30	NSC IM-RAD-2013