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XrM50 Participating Laboratories

Lab Code	Lab Name	Matrix Code
CDHS01	California Department of Public Health	XrM
ERCL01	Washington State Public Health Laboratories	XrM
FDHE01	Florida Dept of Health Environmental Laboratory	XrM
FDOH01	Florida Dept. of Health, Mobile Environmental Radiological Lab	XrM
HCAL01	Lawrence Livermore National Laboratory	XrM
HECR01	SC Dept. Health and Environmental Control Radiological Laboratory	XrM
IEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	XrM
MNDH01	Minnesota Department of Health, Public Health Lab. Division	XrM
NJDH01	New Jersey Dept. of Health, ECLS	XrM
NSPH01	Nevada State Public Health Laboratory	XrM
ODHL01	Ohio Department of Health Laboratory	XrM
SEML01	SRS Environmental Monitoring Laboratory	XrM
SMER01	State of Michigan EGLE Radiological Lab	XrM
STRL01	South Texas Project Radiological Laboratory	XrM
TELE02	Microbac Laboratories Inc Northbrook	XrM
WIPH01	WI, DPH, Radiation Protection Section	XrM
WIPP01	WIPP Laboratories	XrM
WSHL01	Wisconsin State Laboratory of Hygiene	XrM

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ARSL01	ARS	XrM
GENE01	GEL Laboratories, LLC	XrM
SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	XrM



Study Reference Values

MAPEP-24-XrM50

Radiological Reference Date: 04/01/2024

Analyte	Ref Value	Ref Unc
Radiological	(Bq	Units: /sample)
lodine-131	157	2

The XrM50 is milk powder spiked with lodine-131.



Sample Statistical Summary

MAPEP-24-XrM50

Radiological Reference Date: 04/01/2024

Analyte	T(1)	Grand(2) Mean	Std Dev	Ref Value	Ref Unc
Radiological			Units:	(Bq/san	nple)
lodine-131	18	157	22	157	2

Note: (1) T = Total number of laboratories reporting analyte.
(2) Mean excludes values outside of a bias range of +/- 30%.

The XrM50 is milk powder spiked with lodine-131.



Laboratory Results For MAPEP-24-XrM50 (CDHS01) California Department of Public Health Drinking Water & Radiation Lab. Richmond, CA 94804-6403

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	l-131	157 +/- 2 Bq/sample	158 +/- 4.77 Bq/sample	0.6



Laboratory Results For MAPEP-24-XrM50 (ERCL01) Washington State Public Health Laboratories 1610 N.E. 150th Street Shoreline, WA 98155-9701

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	158 +/- 2 Bq/sample	0.6
			Radiological Reference Da	te: April 1, 2024



Laboratory Results For MAPEP-24-XrM50 (FDHE01) Florida Dept of Health Environmental Laboratory 2100 All Childrens Way Orlando, FL 32818-5271

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	191.33 +/- 2.7 Bq/sample	21.9



Laboratory Results For MAPEP-24-XrM50 (FDOH01) Florida Dept. of Health, Mobile Environmental Radiological Lab 2100 All Childrens Way Orlando, FL 32818-5271

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	187.41 +/- 2.02 Bq/sample	19.4
			Radiological Reference Dat	te: April 1, 2024

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Laboratory Results For MAPEP-24-XrM50 (HCAL01) Lawrence Livermore National Laboratory Analytical Services and Instrumentation Analytical Lab Livermore, CA 94550

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	168.7 +/- 3.8 Bq/sample	7.5



Laboratory Results For MAPEP-24-XrM50 (HECR01) SC Dept. Health and Environmental Control Radiological Laboratory 8231 Parklane Road Columbia, SC 29223

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	149.3 +/- 8.863 Bq/sample	-4.9
			Radiological Reference Da	te: April 1, 2024

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Laboratory Results For MAPEP-24-XrM50 (IEMA01) Illinois Emergency Management Agency Radiochemistry Laboratory 1301 Knotts St. Springfield, IL 62703

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	157.0 +/- 1.46 Bq/sample	0.0
MAPEP-24-XrM50	K-40		49.6 +/- 1.31 Bq/sample	



Laboratory Results For MAPEP-24-XrM50 (MNDH01) Minnesota Department of Health, Public Health Lab. Division 601 Robert St. N. St. Paul, MN 55155

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	66.360 +/- 0.3889 Bq/sample	-57.7
MAPEP-24-XrM50	K-40		58.301 +/- 1.302 Bq/sample	



Laboratory Results For MAPEP-24-XrM50 (NJDH01) New Jersey Dept. of Health, ECLS 3 Schwarzkopf Drive Ewing, NJ 08628

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	157 +/- 3.5 Bq/sample	0.0



Laboratory Results For MAPEP-24-XrM50 (NSPH01) Nevada State Public Health Laboratory 1664 North Virginia Street, MS 328 Reno, NV 89557

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	140.69 +/- 4.90 Bq/sample	-10.4
			Radiological Reference Dat	te: April 1, 2024

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Laboratory Results For MAPEP-24-XrM50 (ODHL01) Ohio Department of Health Laboratory 8995 E Main Street Reynoldsburg, OH 43068

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	0.0196 +/- 0.0307 Bq/sample	-100.0



Laboratory Results For MAPEP-24-XrM50 (SEML01) SRS Environmental Monitoring Laboratory Bldg 735-B Aiken, SC 29808

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	176 +/- 12 Bq/sample	12.1
			Radiological Reference Da	te: April 1, 2024



Laboratory Results For MAPEP-24-XrM50 (SMER01) State of Michigan EGLE Radiological Lab 815 Filley St. Lansing, MI 48906

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	122 +/- 4 Bq/sample	-22.3
				4 11 1 2024



Laboratory Results For MAPEP-24-XrM50 (STRL01) South Texas Project Radiological Laboratory 12090 FM 521 Wadsworth, Texas 77483

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	183.0 +/- 4.3 Bq/sample	16.6
			Radiological Reference Da	te: April 1, 2024



Laboratory Results For MAPEP-24-XrM50 (TELE02) Microbac Laboratories Inc. - Northbrook 700 Landwehr Road Northbrook, IL 60062-

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	208 +/- 5 Bq/sample	32.5
				4 11 1 202 (



Laboratory Results For MAPEP-24-XrM50 (WIPH01) WI, DPH, Radiation Protection Section 1 West Wilson Street Madison, WI 53703

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	143.604 +/- 6.049 Bq/sample	-8.5
			Radiological Reference Date	e: April 1, 2024

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Laboratory Results For MAPEP-24-XrM50 (WIPP01) WIPP Laboratories 1400 University Drive Carlsbad, NM 88220

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	1.13E+002 +/- 5.92E+000	-28.0

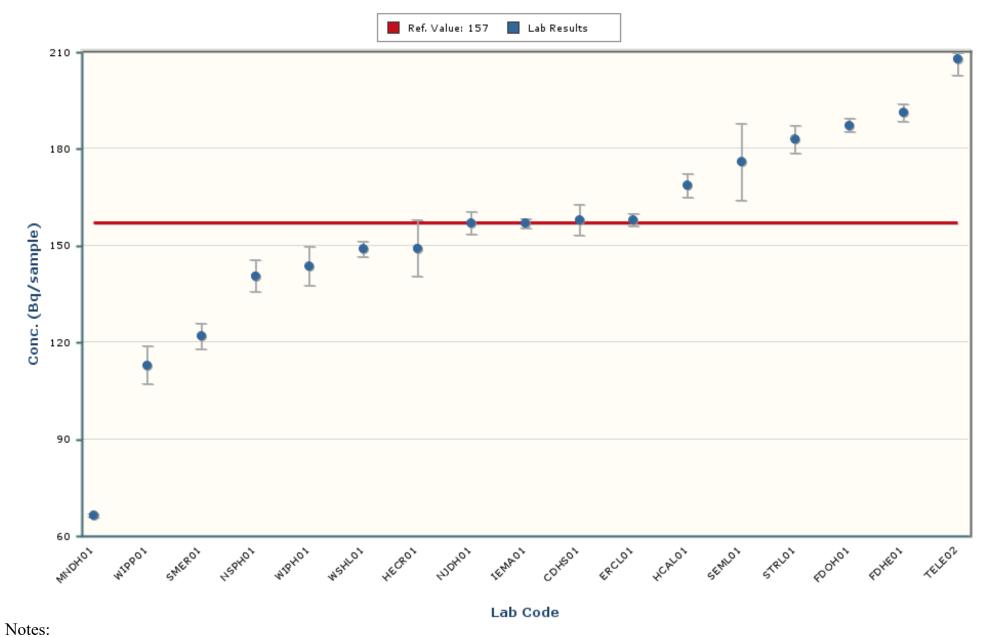


Laboratory Results For MAPEP-24-XrM50 (WSHL01) Wisconsin State Laboratory of Hygiene 2601 Agriculture Drive Madison, WI 53718

Radiological				
Sample ID	Nuclide	Known Activity	Experimental Activity	Bias (%)
MAPEP-24-XrM50	I-131	157 +/- 2 Bq/sample	149 +/- 2.26 Bq/sample	-5.1
			Radiological Reference Da	te: April 1, 2024

Iodine-131

MAPEP-24-XrM50



The error bars encompassing each result are plotted at \pm one standard deviation.