



JAB



Testing Laboratory
Accreditation
Certificate

Accreditation No. RTL03570

Riken Analysis Center, Inc.
Radioactivity examination department
Analysis testing department

18-17, Dogata, Turuoka-shi, Yamagata, 997-0013 Japan

meets the following criteria. On the basis of this, Japan Accreditation Board (JAB) grants accreditation to the said testing laboratory.

Applicable accreditation criteria	: JIS Q 17025:2018 (ISO/IEC 17025:2017)
Scope of accreditation	: Chemical testing, Food and Drug testing, Biological sciences testing (As described in the appendix)
Premises covered by accreditation	: As described in the appendix.
Expiry date of accreditation	: September 30, 2024

Renewed (2)
Initial accreditation

August 26, 2020
September 4, 2012

Y. Iizuka, President

Japan Accreditation Board

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Type of Laboratory	Testing Laboratory
Name of Laboratory	Riken Analysis Center, Inc. Radioactivity examination department Analysis testing department
Address	18-17, Dogata, Turuoka-shi, Yamagata, 997-0013 Japan

1) Premises on which testing activities are performed

Name of Premises	Riken Analysis Center, Inc. Radioactivity examination department Analysis testing department.	
Address of Premises	Postal code	997-0013
	Address	18-17, Dogata, Turuoka-shi, Yamagata, Japan
Testing service at permanent facilities or on site testing service	<input checked="" type="checkbox"/> Testing service at permanent facilities <input type="checkbox"/> On site testing service	

Scope of Accreditation

FIELD	M26 Chemical Testing
CODE OF CIT*1	M26.A2
NAME OF CIT	Environment samples

*1 CIT: Classification of Item to be Tested

*2 TCT: Technical Classification of Test

CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B2.1 Molecular absorption spectrometry	Cyanide	Water : JIS K 0102 38.1.2, 38.2
		Soil Elution : ※3, ※4
		Soil Contain : ※5
	Total-P	Water : JIS K 0102 46.3.1
	NH ₄ ⁺	Water : JIS K 0102 42.2
	Fluoride	Water : JIS K 0102 34.1
B2.2 Atomic absorption analysis : Flame atomic absorption	NO ₂ ⁻	Water : JIS K 0102 43.1.1
	NO ₃ ⁻	Water : JIS K 0102 43.2.3
B2.2 Atomic absorption analysis : Reduced vaporized atomic absorption	D-Fe	Water : JIS K 0102 3.2,57.2
	Cu	Soil Contain : ※6
B2.2 Atomic absorption analysis : Reduced vaporized atomic absorption	Hg	Water : ※1 Appendix Table2, ※2,
		Soil Elution : ※3, ※4
		Soil Contain : ※5

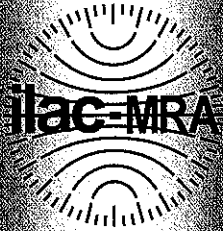
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Type of Laboratory	Testing Laboratory
Name of Laboratory	Riken Analysis Center, Inc. Radioactivity examination department Analysis testing department
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CODE & NAME OF TCT ²	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B5.1 Chromatography : HPLC	Thiuram	Water : ※1 Appendix Table 5
		Soil Elution : ※3, ※4
B3.6 Mass spectrometric analysis I : GC/MS	Simazine Thiobencarb	Water : ※1 Appendix Table 6-1
		Soil Elution : ※3, ※4
	1,4-Dioxane	Water : ※1 Appendix Table 8-2
		Soil Elution : ※3
	VOC ※9	Water : JIS K 0125 5.1
chloroethylene	Water : ※7 Appendix Table 1 Soil Elution : ※3, ※4(JIS K 0125 5.1)	
B3.7 Mass spectrometric analysis II : ICP-MS	B	Water : JIS K 0102 47.4
		Soil Elution : ※3, ※4 (JIS K 0102 47.4)
	Cu	Water : JIS K 0102 52.5
	Zn	Water : JIS K 0102 53.4
	Pb	Water : JIS K 0102 54.4
		Soil Elution : ※3, ※4 (JIS K 0102 54.4)
		Soil Contain : ※5 (JIS K 0102 54.4)
	Cd	Water : JIS K 0102 55.4
		Soil Elution : ※3, ※4 (JIS K 0102 55.4)
		Soil Contain : ※5 (JIS K 0102 55.4)
	Ni	Water : JIS K 0102 59.4
	Mn	Water : JIS K 0102 56.5
	As	Water : JIS K 0102 61.4
Soil Elution : ※3, ※4 (JIS K 0102 61.4) Soil Contain : ※5 (JIS K 0102 61.4) ※8		
Cr	Water : JIS K 0102 65.1.5	
Cr(VI)	Water : JIS K 0102 65.2.5	
	Soil Elution : ※3, ※4 (JIS K 0102 65.2.5) Soil Contain : ※5 (JIS K 0102 65.2.5)	
Se	Water : JIS K 0102 67.4	
	Soil Elution : ※3, ※4 (JIS K 0102 67.4)	

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CODE & NAME OF TCT ²	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B5.1 Chromatography : GC	Alkyl-Hg	Water : ※1 Appendix Table 3
		Soil Elution : ※3, ※4
	PCB	Water : ※1 Appendix Table 4
		Soil Elution : ※3, ※4
	Organophosphorus	Water : ※2 Appendix Table 1
		Soil Elution : ※3, ※4
B5.1 Chromatography : IC	Cl ⁻	Water : JIS K 0102 35.3
	Fluoride	Water : ※1 Appendix Table 7 JIS K 0102 34.3
	SO ₄ ²⁻	Water : JIS K 0102 42.5
	NO ₂ ⁻	Water : JIS K 0102 43.1.2
	NO ₃ ⁻	Water : JIS K 0102 43.2.5
B5.2 Flow injection analysis : CFA	Phenols	Water : JIS K 0102 28.1.3(JIS K 0170-5 6.3.4)
	Fluoride	Water : ※2 JIS K 0102 34.4(JIS K 0170-6 6.3.3)
		Soil Elution : ※5 JIS K 0102 34.4(JIS K 0170-6 6.3.3)
	Cyanide	Water : ※1 JIS K 0102 38.1.2, 38.5(JIS K 0170-9 7.3.4)
	Total-N	Water : JIS K 0102 45.6(JIS K 0170-3 6.3.4,6.3.5)
	Total-P	Water : ※2 JIS K 0102 36.3.4(JIS K 0170-4 7.3.5)
	NO ₃ ⁻	Water : ※1 JIS K 0102 43.2.6 (JIS K 0170-2 7.3.5)
NO ₂ ⁻	Water : ※1 JIS K 0102 43.1.3 (JIS K 0170-2 6.3.5)	

(Note)

※1 Environmental quality standards for water pollution(Ministry of the Environment Notification No.59, December 28, 1971)

※2 Based on the provisions of ministerial ordinance to set wastewater standard, test method of wastewater standard designated by Minister of the Environment(Ministry of the Environment Notification No.64, September 30, 1974)

※3 Environmental quality standards for soil pollution(Ministry of the Environment Notification No.46, August 23, 1991)

※4 Measurement method for soil elution investigation(Ministry of the Environment Notification No.18, May 6, 2003)

※5 Measurement method for soil contain investigation(Ministry of the Environment Notification No.19, May 6, 2003)

※6 Ministerial Ordinance that specifies the test method for the amount of copper related to designation requirements for agricultural soil contaminated areas(Ordinance of Prime Minister's Office No.66, October, 10, 1972)

※7 Environmental Quality Standards for Groundwater Pollution(Ministry of the Environment

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Type of Laboratory	Testing Laboratory
Name of Laboratory	Riken Analysis Center, Inc. Radioactivity examination department Analysis testing department
Address	18-17, Dogata, Turuoka-shi, Yamagata, 997-0013 Japan

CODE & NAME OF TCT ^{*2}	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
Notification No.10, March,13,1997)		
※8 Ministerial Ordinance that specifies the method of testing for the amount of arsenic pertaining to designated requirements of agricultural soil contamination countermeasures (Prime minister's office No.31, April, 1975)		
※9 Benzene, Trichloroethylene, Tetrachloroethylene, Dichloromethane, Carbon tetrachloride, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,3-Dichloropropene		

Scope of Accreditation FIELD	M26 Chemical Testing
CODE OF CIT ^{*1}	M26.A2 / A10
NAME OF CIT	Environment sample, Waste material / Wood

*1 CIT: Classification of Item to be Tested

*2 TCT: Technical Classification of Test

CODE & NAME OF TCT ^{*2}	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B9.1 Radioactivity analysis	I-131, Cs-134, Cs-137	Materials or Products Tested: A2(Environment sample, Waste material), A10 (Wood) <ul style="list-style-type: none"> Gamma-ray Spectrometry using Germanium Semiconductor Detector (Radiation Measurement Method Series 7) (Ministry of Education, Culture, Sports, Science and Technology) Sample Pre-treatment for Gamma-Ray Spectrometry in Radiological Emergency (Radiation Measurement Method Series No.24) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) SOP : NC-M-01-820

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Scope of Accreditation

FIELD	M27 Food and Drug Testing
CODE OF CIT*1	M27.A4
MATERIALS OR PRODUCTS TESTED	Water

*1 CIT: Classification of Item to be Tested

*2 TCT: Technical Classification of Test

CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B1 Standard method	Cd Se Pb As Cr Cr(VI) B Zn Al Fe Cu Mn	Ministerial Notification No.261 of MHLW Appendix 6 ICP-MS Method SOP:NC-M-02-820

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FIELD	M27 Food and Drug Testing
CODE OF CIT ^{*1}	M27.A1 / A2 / A4 / A20
MATERIALS OR PRODUCTS TESTED	Food, Feed, Manure / Additives (Food, Feed) / Waters / Drug [*] Pharmaceutical Ingredients [*] cosmetics

*1 CIT: Classification of Item to be Tested

*2 TCT: Technical Classification of Test

CODE & NAME OF TCT ^{*2}	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B17.1 Radioactivity analysis	I-131, Cs-134, Cs-137	Materials or Products Tested : A1(Manure, Feed), A2 (Food Additives) •Gamma-ray Spectrometry using Germanium Semiconductor Detector (Radiation Measurement Method Series 7) (Ministry of Education, Culture, Sports, Science and Technology) •Sample Pre-treatment for Gamma-Ray Spectrometry in Radiological Emergency (Radiation Measurement Method Series No.24) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) SOP : NC-M-01-820
	I-131	Materials or Products Tested : A1(Foods) Manual on radiation measurement of food in emergency situations (Ministry of Health, Labour and Welfare, March, 2002) Chapter 2 Radioactivity analyses in food 2 Radioactivity analysis by gamma-ray spectrometry with germanium semiconductor detector SOP : NC-M-01-820
	Cs-134, Cs-137	Materials or Products Tested : A1(Foods, Food for baby , Milk and Dairy products), A4(Water), A20(Pharmaceutical products) Method for testing radioactive cesium in food

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CODE & NAME OF TCT ²	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
		(Ministry of Health, Labour and Welfare Mar. 15, 2012 attachment) SOP : NC-M-01-820
	I-131, Cs-134, Cs-137	Materials or Products Tested : A2(Additives(Feed)) <ul style="list-style-type: none"> Gamma-ray Spectrometry using Germanium Semiconductor Detector (Radiation Measurement Method Series 7) (Ministry of Education, Culture, Sports, Science and Technology) Sample Pre-treatment for Gamma-Ray Spectrometry in Radiological Emergency (Radiation Measurement Method Series No.24) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority)

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Scope of Accreditation

FIELD	M32 Biological Sciences Testing
CODE OF CIT ^{*1}	M32.A1.2/A1.5
NAME OF CIT	Urine / Maternal Milk

*1 CIT: Classification of Item to be Tested

*2 TCT: Technical Classification of Test

CODE & NAME OF TCT ^{*2}	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B2.11 Radioactivity analysis	I-131, Cs-134, Cs-137	Materials or Products Tested : A1.2(Urine) <ul style="list-style-type: none"> • Gamma-ray Spectrometry using Germanium Semiconductor Detector (Radiation Measurement Method Series 7) (Ministry of Education, Culture, Sports, Science and Technology) • Sample Pre-treatment for Gamma-Ray Spectrometry in Radiological Emergency (Radiation Measurement Method Series No.24) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) SOP : NC-M-01-820
	Cs-134, Cs-137	Materials or Products Tested : A1.5(Maternal Milk) Method for testing radioactive cesium in food (Ministry of Health, Labour and Welfare Mar. 15, 2012 attachment) SOP : NC-M-01-820

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