



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

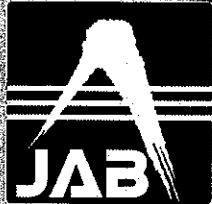
meets the following criteria. On the basis of this, Japan Accreditation Board (JAB) grants accreditation to the said testing laboratory.

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

Revised	February 13, 2023
Renewed	August 26, 2020
Initial accreditation	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

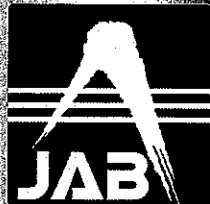
Name of Premises	Riken Analysis Center, Inc. Radioactivity examination department Analysis testing department	
Address of Premises	Postal code	997-0013
	Address	18-17, Dogata, Turuoka-shi, Yamagata, Japan
Testing service at permanent facilities or on site testing service	<input checked="" type="checkbox"/> 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
B5.1 Chromatography : HPLC	Thiuram	Water : ※1 Appendix Table 5
		Soil Elution : ※3, ※4
B3.6 Mass spectrometric	Simazine Thiobencarb	Water : ※1 Appendix Table 6-1
		Soil Elution : ※3, ※4



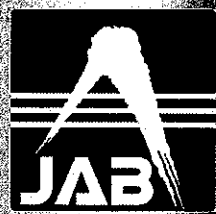
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Type of Laboratory	Testing Laboratory
Name of Laboratory	Riken Analysis Center, Inc. Radioactivity examination department Analysis testing department
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CODE & NAME OF TCT ^{*2}	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
analysis I : GC/MS	1,4-Dioxane	Water : ※1 Appendix Table 8-2 Soil Elution : ※3
	VOC ※9	Water : JIS K 0125 5.1 Soil Elution : ※3, ※4 (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)
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



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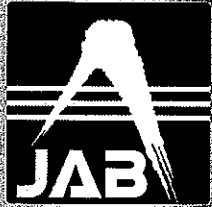
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Name of Laboratory	Riken Analysis Center, Inc. Radioactivity examination department Analysis testing department
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CODE & NAME OF TCT ^{*2}	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
	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 Appendix Table 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)

- (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 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



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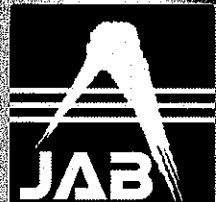
Scope of Accreditation

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) • Gamma-ray Spectrometry using Germanium Semiconductor Detector (Radiation Measurement Method Series 7) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) • 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

Scope of Accreditation

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) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) · Sample Pre-treatment for Gamma-Ray Spectrometry in Radiological Emergency (Radiation Measurement Method Series



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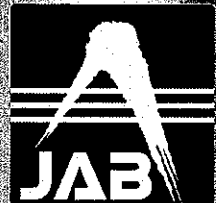
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CODE & NAME OF TCT ²	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
		No.24) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) SOP : NC-M-01-820
	I-131	Materials or Products Tested : A1(Foods) 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 (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)) · Gamma-ray Spectrometry using Germanium Semiconductor Detector (Radiation Measurement Method Series 7) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) · 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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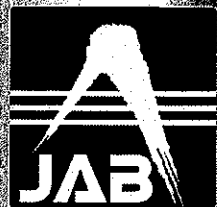
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Scope of Accreditation

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) (Radiation Monitoring Division, the Secretariat of the Nuclear Regulation Authority) 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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Scope of Accreditation:

FIELD	M26 Biological Sciences Testing
CODE OF CIT*1	M26.A10
NAME OF CIT	Construction materials

*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
B2.6 Microscope image analysis I : Polarizing microscope measurement	Chrysotile Amosite Crocidolite Anthophyllite Tremolite Actinolite	Materials or Products Tested:A10(Construction materials) ·JIS A 1481-1 Determination of asbestos in building material products- Part1:Sampling and qualitative determination of asbestos in commercial bulk materials ·Asbestos analysis manual for preliminary survey based on asbestos rules 3(Ministry of Health, Labor and Welfare) ※Sampling is not a scope.

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