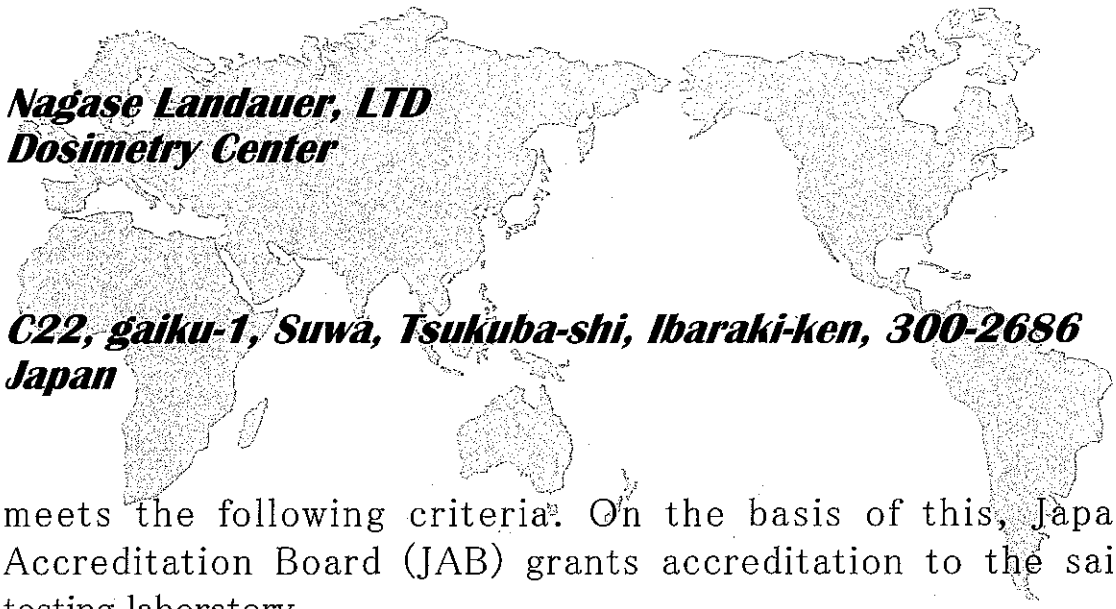
Testing Laboratory

Accreditation Certificate

Accreditation No.RTL04600



Nagase Landauer, LTD
Dosimetry Center

C22, gaiku-1, Suwa, Tsukuba-shi, Ibaraki-ken, 300-2686
Japan

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

Applicable accreditation criteria	:	ISO/IEC 17025:2017 (JIS Q 17025:2018)
Scope of accreditation	:	**Ionizing Radiation Monitoring** (As described in the appendix)
Premises covered by accreditation	:	As described in the appendix.
Expiry date of accreditation	:	March 31, 2027

Revised	June 10, 2025
Renewed	April 1, 2023
Initial accreditation	March 19, 2019

Y. Miki, President
Japan Accreditation Board

Issue No. : RTL04600-20250610

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Accreditation Certificate Appendix

Type of Laboratory	Testing
Name of Laboratory	Nagase Landauer, LTD Dosimetry Center
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1) Premises on which testing activities are performed

Name of Premises	Nagase Landauer, LTD Dosimetry Center
Address	C22, gaiku-1, Suwa, Tsukuba-shi, Ibaraki-ken, 300-2686 Japan
Testing service at permanent facilities or on site testing service	■ Testing service at permanent facilities □ On site testing service

Scope of Accreditation

FIELD	M33 Ionizing Radiation Monitoring
CODE AND NAME OF CLASSIFICATION (1)	M33.1 Personal dose measurement
CODE AND NAME OF CLASSIFICATION (2)	M33.1.1 Whole body dosemeter

TYPE OF DOSEMETER	CODE AND NAME OF CLASSIFICATION (3)	CODE AND NAME OF CLASSIFICATION (4)	ENERGY RANGE OF IONIZED RADIATION	RANGE OF DOSE
SG-1Type	M33.1.1.1 Photon Radiation	M33.1.1.1.1 $H_p(10)$	16 keV to 6.3 MeV	0.1 mSv to 10 Sv
		M33.1.1.1.2 $H_p(0.07)$	12 keV to 6.3 MeV	0.1 mSv to 10 Sv
	M33.1.1.2 Beta radiation	M33.1.1.2.1 $H_p(0.07)$	200 keV to 800 keV (Average Energy)	0.1 mSv to 10 Sv
SG-2 Type	M33.1.1.1 Photon Radiation	M33.1.1.1.1 $H_p(10)$	150 keV to 6.3 MeV	0.1 mSv to 10 Sv
KG Type	M33.1.1.1 Photon Radiation	M33.1.1.1.1 $H_p(10)$	16 keV to 6.3 MeV	0.1 mSv to 10 Sv
		M33.1.1.1.2 $H_p(0.07)$	12 keV to 6.3 MeV	0.1 mSv to 10 Sv
	M33.1.1.2 Beta radiation	M33.1.1.2.1 $H_p(0.07)$	200 keV to 800 keV (Average Energy)	0.1 mSv to 10 Sv
	M33.1.1.3 Neutron	M33.1.1.3.1 $H_p(10)$	0.025 eV to 0.5 eV 24 keV to 14.8 MeV	0.2 mSv to 6 mSv 0.2 mSv to 50 mSv

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TYPE OF DOSEMETER	CODE AND NAME OF CLASSIFICATION (3)	CODE AND NAME OF CLASSIFICATION (4)	ENERGY RANGE OF IONIZED RADIATION	RANGE OF DOSE
NG Type	M33.1.1.1 Photon Radiation	M33.1.1.1.1 $H_p(10)$	16 keV to 6.3 MeV	0.1 mSv to 10 Sv
		M33.1.1.1.2 $H_p(0.07)$	12 keV to 6.3 MeV	0.1 mSv to 10 Sv
	M33.1.1.2 Beta radiation	M33.1.1.2.1 $H_p(0.07)$	200 keV to 800 keV (Average Energy)	0.1 mSv to 10 Sv
	M33.1.1.3 Neutron	M33.1.1.3.1 $H_p(10)$	0.025 eV to 0.5 eV 24 keV to 14.8 MeV	0.1 mSv to 6 mSv 0.1 mSv to 50 mSv

FIELD	M33 Ionizing Radiation Monitoring
CODE AND NAME OF CLASSIFICATION (1)	M33.1 Personal dose measurement
CODE AND NAME OF CLASSIFICATION (2)	M33.1.2 Extremity dosemeter

TYPE OF DOSEMETER	CODE AND NAME OF CLASSIFICATION (3)	CODE AND NAME OF CLASSIFICATION (4)	ENERGY RANGE OF IONIZED RADIATION	RANGE OF DOSE
R-1 Type	M33.1.2.1 Photon radiation	M33.1.2.1.1 $H_p(0.07)$	16 keV to 6.3 MeV	0.2 mSv to 1 Sv
R-2 Type	M33.1.2.2 Beta radiation	M33.1.2.2.1 $H_p(0.07)$	800 keV (Average Energy)	0.4 mSv to 1 Sv
R-3 Type	M33.1.2.1 Photon radiation	M33.1.2.1.1 $H_p(0.07)$	48 keV to 6.3 MeV	0.2 mSv to 1 Sv
	M33.1.2.2 Beta radiation	M33.1.2.2.1 $H_p(0.07)$	800 keV (Average Energy)	0.2 mSv to 1 Sv
SG-3 Type	M33.1.2.1 Photon radiation	M33.1.2.1.1 $H_p(0.07)$	24 keV to 1.25 MeV	0.1 mSv to 10 Sv
	M33.1.2.2 Beta radiation	M33.1.2.2.1 $H_p(0.07)$	800 keV (Average Energy)	0.1 mSv to 10 Sv

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FIELD	M33 Ionizing Radiation Monitoring
CODE AND NAME OF CLASSIFICATION (1)	M33.1 Personal dose measurement
CODE AND NAME OF CLASSIFICATION (2)	M33.1.3 lens of the eye dosemeter

TYPE OF DOSEMETER	CODE AND NAME OF CLASSIFICATION (3)	CODE AND NAME OF CLASSIFICATION (4)	ENERGY RANGE OF IONIZED RADIATION	RANGE OF DOSE
VL Type	M33.1.3.1 Photon radiation	M33.1.3.1.1 $H_p(3)$	16 keV to 6.3 MeV	0.1 mSv to 1 Sv
	M33.1.3.2 Beta radiation	M33.1.3.2.1 $H_p(3)$	800 keV （Average Energy）	0.1 mSv to 1 Sv
WH Type	M33.1.3.1 Photon radiation	M33.1.3.1.1 Hp(3)	24 keV to 6.3 MeV	0.1 mSv to 1 Sv
	M33.1.3.2 Beta radiation	M33.1.3.2.1 Hp(3)	800 keV （Average Energy）	0.1 mSv to 1 Sv
SG-4 Type	M33.1.3.1 Photon radiation	M33.1.3.1.1 $H_p(3)$	16 keV to 6.3 MeV	0.1 mSv to 10 Sv
	M33.1.3.2 Beta radiation	M33.1.3.2.1 $H_p(3)$	800 keV （Average Energy）	0.1 mSv to 10 Sv

Scope of Accreditation

FIELD	M33 Ionizing Radiation Monitoring
CODE AND NAME OF CLASSIFICATION (1)	M33.2 Personal dose assessment

CODE AND NAME OF CLASSIFICATION (2)	CODE AND NAME OF CLASSIFICATION (3)	TYPE OF IONIZED RADIATION	REMARKS
M33.2.1 Uniform exposure to the body trunk	M33.2.1.1 Effective dose	Photon、Neutron	
	M33.2.1.2 Equivalent dose（Skin）	Photon、Beta、Neutron	
	M33.2.1.3 Equivalent dose(lens of the eye)	Photon、Beta、Neutron	
	M33.2.1.4 Equivalent dose(female abdomen)	Photon、Neutron	

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CODE AND NAME OF CLASSIFICATION (2)	CODE AND NAME OF CLASSIFICATION (3)	TYPE OF IONIZED RADIATION	REMARKS
M33.2.2 Non-uniform exposure to the body trunk	M33.2.2.1 Effective dose	Photon、Neutron	
	M33.2.2.2 Equivalent dose（Skin）	Photon、Beta、Neutron	
	M33.2.2.3 Equivalent dose(lens of the eye)	Photon、Beta、Neutron	
	M33.2.2.4 Equivalent dose(female abdomen)	Photon、Neutron	
M33.2.3 Uniform exposure to the body trunk and extremity exposure	M33.2.3.1 Effective dose	Photon、Neutron	
	M33.2.3.2 Equivalent dose（Skin）	Photon、Beta、Neutron	
	M33.2.3.3 Equivalent dose(lens of the eye)	Photon、Beta、Neutron	
	M33.2.3.4 Equivalent dose(female abdomen)	Photon、Neutron	
M33.2.4 Non-uniform exposure to the body trunk and extremity exposure	M33.2.4.1 Effective dose	Photon、Neutron	
	M33.2.4.2 Equivalent dose（Skin）	Photon、Beta、Neutron	
	M33.2.4.3 Equivalent dose(lens of the eye)	Photon、Beta、Neutron	
	M33.2.4.4 Equivalent dose(female abdomen)	Photon、Neutron	
M33.2.5 Uniform exposure to the body trunk and lens of the eye exposure	M33.2.5.1 Effective dose	Photon、Neutron	
	M33.2.5.2 Equivalent dose (skin)	Photon、Beta、Neutron	
	M33.2.5.3 Equivalent dose (lens of the eye)	Photon、Beta、Neutron	
	M33.2.5.4 Equivalent dose (female abdomen)	Photon、Neutron	
M33.2.6 Non-uniform exposure to the body trunk and lens of the eye exposure	M33.2.6.1 Effective dose	Photon、Neutron	
	M33.2.6.2 Equivalent dose (skin)	Photon、Beta、Neutron	
	M33.2.6.3 Equivalent dose (lens of the eye)	Photon、Beta、Neutron	
	M33.2.6.4 Equivalent dose (female abdomen)	Photon、Neutron	
M33.2.7 Uniform exposure to the body trunk, extremity exposure and lens of the eye exposure	M33.2.7.1 Effective dose	Photon、Neutron	
	M33.2.7.2 Equivalent dose (skin)	Photon、Beta、Neutron	
	M33.2.7.3 Equivalent dose (lens of the eye)	Photon、Beta、Neutron	
	M33.2.7.4 Equivalent dose (female abdomen)	Photon、Neutron	

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CODE AND NAME OF CLASSIFICATION (2)	CODE AND NAME OF CLASSIFICATION (3)	TYPE OF IONIZED RADIATION	REMARKS
M33.2.8 Non-uniform exposure to the body trunk, extremity exposure and lens of the eye exposure	M33.2.8.1 Effective dose	Photon、Neutron	
	M33.2.8.2 Equivalent dose (skin)	Photon、Beta、Neutron	
	M33.2.8.3 Equivalent dose (lens of the eye)	Photon、Beta、Neutron	
	M33.2.8.4 Equivalent dose (female abdomen)	Photon、Neutron	

(Notes on Accreditation Certificate)

The laboratory is only accredited for laboratory activities outlined within the methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.

When version information of standards or methods are not identified in the scope, laboratories shall adapt to use the current version of such standards within six months at latest from the issued date of current version.

Notes for EMC test laboratory for FCC

Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

Japan Accreditation Board