



Medical Laboratory  
Accreditation  
Certificate

Accreditation No. RML00030

**Hokkaido University**  
**Division of Laboratory and Transfusion Medicine,**  
**Department of Surgical Pathology,**  
**Hokkaido University Hospital**

**North-14, West-5, Kita-ku, Sapporo-shi, Hokkaido,**  
**060-8648 Japan**

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

Applicable accreditation criteria	: ISO 15189 : 2012
Scope of accreditation	: As described in the appendix.
Premises covered by accreditation	: As described in the appendix.
Expiry date of accreditation	: September 30, 2025

Revised	August 21, 2021
Renewed	October 1, 2021
Initial accreditation	September 5, 2005

Y. Iizuka, President

**Japan Accreditation Board**



# Accreditation Certificate Appendix

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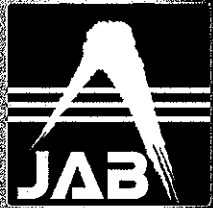
Accreditation No. RML00030

## **Hokkaido University Division of Laboratory and Transfusion Medicine, Department of Surgical Pathology, Hokkaido University Hospital**

Hokkaido University  
Division of Laboratory and Transfusion Medicine, Department of Surgical Pathology,  
Hokkaido University Hospital  
North-14, West-5, Kita-ku, Sapporo-shi, Hokkaido, 060-8648 Japan  
Including primary sample collection in the scope of accreditation

### Scope of accreditation :

Item	Type of Samples	Test Method
<b>Basic Series</b>		
<b>1 General (urine, feces, etc.)</b>		
<b>a Qualitative (urine / feces)</b>		
Urinary Qualitative / semi-Quantitative Examination (general substances) (Gravity, pH, Protein, Glucose, Urobilinogen, Bilirubin, Ketones, Occult blood reaction (Urinary), Bacteria (Test paper))	Urine	YurifuleTS 9UB
Protein quantitation	Urine	Punctured fluid MAIKURO TP -AR
Glucose quantitation	Urine	Others [SEROTEC] UGLU-L
Sedimentary test, urine	Urine	Sternheimer Stain
<b>2 Hematology</b>		
<b>a Blood count / blood cell morphology test</b>		
Peripheral blood general test*(complete blood counts)* : RBC, WBC, Hgb, PLT, Hct	Blood	XN-10,XN-20
Reticulocytes	Blood	XN-10,XN-20
Eosinophils	Blood	XN-10,XN-20 Hinkelmann,s solution
Hemogram (The microscope method)	Blood	SP50,May-Grunwald,s stain solution, Giemsa,s stain solution
Hemogram (The automatic analyser method)	Blood	XN-10,XN-20
<b>b Thrombus / hemostasis related test</b>		
Prothrombin time(PT)	Plasma	Thromborel S
Activated partial thromboplastin time(APTT)	Plasma	Thrombocheck APTT-SLA
Fibrinogen (Quantitative)	Plasma	Thrombocheck Fib(L)
Fibrinogen degradation products(FDP)	Plasma	LiasAuto P-FDP
<b>3 Biochemistry I</b>		
<b>a Biochemistry</b>		
Total bilirubin	Serum	IatroLQ T-BIL II
Bilirubin, indirect and direct	Serum	IatroLQ D-BIL(A)
Total protein	Serum	AquaAuto Kainos TP- II
Albumin	Serum	AquaAuto Kainos ALB
Urea nitrogen(BUN)	Serum	Urine QuickAuto Neo BUN
Creatinine	Serum	Urine SignusAuto CRE 7170
Uric acid	Serum	Urine QuickAuto Neo UA II 7170
Na and Cl	Serum	Urine ion - selective electrode method
K	Serum	Urine ion - selective electrode method
Ca	Serum	Urine AccurasAuto Ca
Inorganic phosphate and phosphoric acid	Serum	Urine AccurasAuto IP 7170



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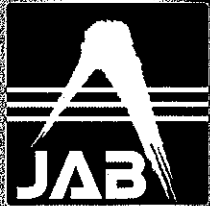
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**Scope of accreditation :**

Item	Type of Samples		Test Method
	Serum	Urine	
Mg			AccurasAuto Mg
Total cholesterol	Serum		Koresutesuto CHO
Triglyceride	Serum		Koresutesuto TG
HDL-cholesterol	Serum		Koresutesuto HDL-C
LDL-cholesterol	Serum		Koresutesuto LDL-C
Glycated albumin	Serum		Rusika GA-L
Glucose	Serum		GOD immobilized enzyme electrode method
Hemoglobin A1c (HbA1c)	Serum		High performance liquid chromatography
Fe	Serum		QuickAuto Neo Fe
Unsaturated iron binding capacity (UIBC)	Serum		
Ammonia	Serum		"Serotec"Ammonia-L
Alkaline phosphatase	Serum		Pure Auto S ALP-IFCC
Cholinesterase	Serum		"Serotec"ChE-CL
$\gamma$ -glutamyltranspeptidase ( $\gamma$ -GT)	Serum		
Lactate dehydrogenase (LD)	Serum		Serotec"LD-IF
Amylase	Serum		"Serotec"AMY-EL
Creatine kinase (CK)	Serum		"Serotec"CK-L
Aspartate aminotransferase (AST)	Serum		Pure Auto S AST-L
Alanine aminotransferase (ALT)	Serum		Pure Auto S ALT-L
Blood gas analysis	Blood		electrode method
<b>5 Immunology</b>			
<b>a Immunochemistry I</b>			
C-reactive protein(CRP)	Serum		IatroCRP-EX
Immunoglobulin (IgG, IgA, IgM)	Serum	Punctured fluid	N-Assei TIA IgG-SH Nittobo N-ASSEI TIA IgA-SH Nittobo N-Assei TIA IgM-SH Nittobo
C3	Serum		N-Assei TIA C3-SH Nittobo
C4	Serum		N-Assei TIA C4-SH Nittobo
Immunoglobulin(RF)	Serum		N-Assei LA RF-K Nittobo
<b>b Immunohematology</b>			
Blood group (ABO type)	Blood		Centrifugal Agglutination by BeadsColumn
Blood group (Rho (D) factor)	Blood		Centrifugal Agglutination by BeadsColumn
Indirect Coombs, direct Coombs	Blood		hemagglutination
<b>c Infectious disease I</b>			
HBs antigen	Serum		Alinity HBsAg QT · Abbott
HCV antibody (Quantitative,Qualitative )	Serum		Alinity HCV · Abbott
HTLV-Iantibody (Qualitative)	Serum		Alinity HTLV · Abbott
Serologic test for syphilis (STS) (Qualitative)	Serum		MediAce RPR
Serologic test for syphilis (Qualitative)	Serum		AccurasAuto TP Koutai (Baidoku)-A
<b>6 Microbiology</b>			
<b>a Microscopic examination for stained film (general bacteria)</b>			
Other	Sputum	Urine	Favor G Nissui
Use a fluorescent microscope	Sputum	Others	Phenolic Acridine Orange Fluorescent Stain



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**Scope of accreditation :**

Item	Type of Samples		Test Method
<b>b Bacterial culture and identification / Antimicrobial sensitivity test (general bacteria)</b>			
Bacterial culture and identification	Sputum	Urine	DxM1096 MicroScan Walk Away , MALDI-TOF MS
Anaerobic culture	Punctured fluid	Secretions	ANC RS/BBE medium CCMA medium Brucella medium
Antimicrobial sensitivity test (general bacteria)	Urine	Sputum	DxM1096 MicroScan Walk Away , IA20 MIC Pro
Mycobacterial culture and Isolation (liquid medium)	Sputum	Others	BACTEC MGIT320
Mycobacterial culture and Isolation (other)	Sputum	Others	2% Ogawa's medium
Mycobacterial identification	Sputum	Others	MALDI-TOF MS
<b>Non-Basic Series</b>			
<b>11 General (urine, feces, etc.)</b>			
<b>a General urinalysis</b>			
Albumin (Quantitative) (Urinary)	Urine		TAC-2TEST ALUBUMIN U
Osmolarity	Urine		freezing point depression method
N-acetyl glucosaminidase (NAG) (Urinary)	Urine		N-ASSEI L NAG NITTOBO
Urinary sediment by flow cytometry (Urinary)	Urine		Flow cytometry
<b>b Scatolscopy</b>			
Parasitic worm eggs (feces)	Feces		MGL
Direct smear method (helminth ova and including observation of fat and intestinal absorption test)	Feces		Thin-layer coating mappo
Parasite (feces)	Feces		Visual observation
Hemoglobin (Qualitative) (feces)	Feces		OC-HEMOKYATCHIS 'EIKEN'
<b>c Basic analysis for punctatum, sperm, sputum and others</b>			
Test of cerebrospinal fluid (protein quantification, glucose quantification, cell numbers, specific gravity, globulin reaction, cell classify)	Others		MAIKURO TP -AR, 「SEROTEC」 UGLU-L, Fuchs-Rosenthal, refraction method
IgG Index	Serum	Others	N-ASSEI TIA IgG-SH NITTOBO AquaAuto Kainos ALB TAC-2TEST ALUBUMIN U
<b>12 Hematology</b>			
<b>a General hematology, hemogram</b>			
Erythrocyte sedimentation rate	Blood		SESR-2001-08
Serum osmolality	Serum		freezing point depression method
HemoglobinF (HbF)	Blood		High performance liquid chromatography
Hemogram (special stain)	Blood		ALP stain kit, New PO-K stain kit, PAS stain kit, Esterase stain kit, Esterase AS-D stain kit, Fe stain kit, ACP stain kit
Myelogram	Others		May-Grunwald,s stain solution, Giemsa,s stain solution
Myelogram (special stain)	Others		New PO-K stain kit, PAS stain kit, Esterase stain kit, Esterase AS-D stain kit, Fe stain kit, ACP stain kit
Malignant tumor cell	Blood	Others	Flowcytometry
<b>b Thrombus / hemostasis related test I</b>			
Antithrombin (activity)	Plasma		Levohem AT



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Scope of accreditation :

Item	Type of Samples	Test Method
Protein C (activity)	Plasma	LevohemPC
Fibrin monomer complex detection (Qualitative)	Plasma	Iatoro SF II
Coagulation factor(II, V, VII, VIII, IX, X, XI, XII, XIII)	Plasma	FACTOR II-deficient plasma, FACTOR V-deficient plasma, FACTOR VII-deficient plasma, FACTOR VIII-deficient plasma, FACTOR IX-deficient plasma, FACTOR X-deficient plasma, FACTOR XI-deficient plasma, FACTOR XII-deficient plasma, Berichrom F X III
D dimer	Plasma	LiasAuto D dimer nco
c Thrombus / hemostasis related test II		
Bleeding time	Blood	Duke method
13 Biochemistry I		
a Biochemistry I		
Free cholesterol	Serum	Detamina L FC
Phospholipid	Serum	"Serotec"PL-L
Zn	Serum	AccurasAuto Zn
Monocarboxylate	Plasma	Determiner LA, Determiner PA
Acetaminophen	Serum	Acetaminophen Flex reagent cartridge
Cu	Serum	Kuikkuoto Neo Cu
Ferritin Quantitative	Serum	Iatoro Ferritin
Procalcitonin (PCT) (Quantitative)	Serum	Alinity BRAHMSPCT · Abott
b Biochemistry II		
Adenosine-I-converting enzyme (ACE)	Serum	ACE color
Lipase	Serum	SignusAuto LIP (E)
KL-6	Serum	Nanopia KL-6 Eizai
Cystatine C	Serum	Iatoro Cystatine C
c Isozyme		
CK-MB	Serum	N-assay L CK-MB Nittobo
d Immunochemistry		
Cardiac troponin T (TnT) (Qualitative, Quantitative)	Serum	HISCLTroponinT hs
Myoglobin (Quantitative)	Serum	Mb-latex CN [seiken]
14 Biochemistry II		
a Endocrinology I		
Human chorionic gonadotropin (HCG) (Qualitative)	Urine	GONASTICK W
Human chorionic gonadotropin (HCG) (Quantitative)	Serum	Urine Elecsys HCG II STAT
Human chorionic gonadotropin, $\beta$ -subunit (HCG- $\beta$ )	Serum	Urine Elecsys HCG+ $\beta$ II
Thyroid-stimulating hormone (TSH)	Serum	HISCL TSH
Free triiodothyronine (FT3)	Serum	HISCL FT3
Free thyroxine (FT4)	Serum	HISCL FT4
C-peptide (CPR)	Serum	Urine Alinity C-peptid · Abott
Insulin (IRI)	Serum	Alinity Insurin · Abott
Growth hormone (GH)	Serum	Elecsys hGH
Follicle-stimulating hormone (FSH)	Serum	Elecsys FSHII



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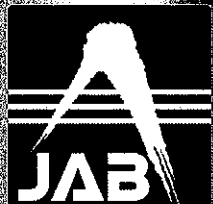
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**Scope of accreditation :**

Item	Type of Samples		Test Method
Luteinizing hormone (LH)	Serum		Elecsys LH
Prolactin (PRL)	Serum		ElecsysPRLIII
Parathyroid hormones (PTH)	Serum		Elecsys PTH
Brain natriuretic peptide (BNP)	Plasma		Alinity BNP-JP · Abott
Estradiol (E2)	Serum		Elecsys E2IV
Cortisol	Serum		AlinityCrtisol · Abott
Testosterone	Serum		ElecsysTESII
N-terminal pro brain natriuretic peptide (NT-proBNP)	Serum		HISCL NT-PROBNP
Thyroglobulin	Serum		Alinity TgAb · Abott
Adrenocorticotrophic hormone (ACTH)	Plasma		Elecsys ACTH
<b>b Tumor marker</b>			
α-fetoprotein (AFP)	Serum		Alinity AFP · Abott
Carcinoembryonic antigen (CEA)	Serum		Alinity CEA · Abott
CA19-9	Serum		Alinity CA19-9 XR · Abott
CA125	Serum		Alinity CA125 II · Abott
Prostate-specific antigen (PSA)	Serum		HISCL PSA
Squamous cell cancer related antigen (SCC)	Serum		Alinity SCC · Abott
CA15-3	Serum		Alinity CA15-3 · Abott
Neuron specific enolase (NSE)	Serum		Elecsys NSE
Cytokeratin 19 fragment	Serum		Alinity CYFRA · Abott
Progastorin releasing peptide(ProGRP)	Serum		Alinity ProGRP · Abott
PIVKA-II (Quantitative)	Serum		Alinity PIVKA-II · Abott
Elastase 1	Serum		Iatoro IRE1 II
Inteleukin 2 receptor, soluble (sIL-2R)	Serum		STACIA CLEIA IL-2R
<b>c Special analysis</b>			
Urea breath test (UBT)	Others		infrared spectroscopy
<b>15 Immunology</b>			
<b>a Immunohematology</b>			
Blood group, Rh system	Blood		Rh shiki ketuekigata Kit Anti C[gammaclone Anti C ] Anti E[gammaclone Anti E ] Anti c[immclone Anti c ] Anti e[gammaclone Anti e ]
Blood group, ABO subgroups	Blood		red cells agglutination
Glyco transferase associated with ABO blood typ	Plasma	Serum	A,B-Transferase Assay Kit GALSERVE AB
Irregular antibody	Blood		hemagglutination
<b>b Immunology for infectious disease II</b>			
Mycoplasma antigen (Qualitative) (Immunochemistry method)	Others		RIBO test Mycoplasma
<b>c Immunology for infectious disease III</b>			
Escherichia coli,serotyping	Feces		Cause of the disease Escherichia coli immune serum 「SEIKEN」
RS virus antigen (Qualitative)	Others		Check RSV
Clostridium difficile toxin A (Qualitative)	Feces		C. DIFF QUIK CHEK COMPLETE
Adenovirus antigen (Qualitative) (Feces)	Feces		Rapidtest rota-adeno II



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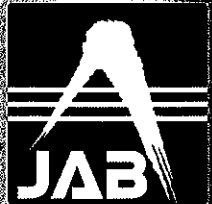
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Scope of accreditation :

Item	Type of Samples	Test Method
Rotavirus antigen (Qualitative) (Feces)	Feces	
(1→3)-β-D-Glucan	Plasma	β-GURUKAN TEST WAKO
Serologic test for syphilis (STS) (Quantitative)	Serum	
Group A-β Streptococcal-rapid Detection (Qualitative)	Others	
Hemophilus influenza b in cerebrospinal (fluid, urinary)	Punctured fluid	
Influenza virus antigen (Qualitative)	Secretions	BDVeritor™ System FLU
Streptococcus pneumoniae in cerebrospinal (fluid, urinary)	Punctured fluid	
Streptococcus pneumoniae capular antigen (fluid, urinary)	Urine	
Treponema pallidum antibody (Quantitative)	Serum	AccurasAuto TP Koutai (Baidoku)-A
Norovirus antigen (Qualitative)	Feces	ImunoCacht - NORO Plus
human metapneumovirus (hMPV) antigen (Qualitative)	Others	Check hMPV
adenovirus antibody (Qualitative) (remove feces)	Others	Imunoace Adeno
HTLV-1 antibody	Serum	Alinity HTLV · Abott
Endotoxin	Plasma	ENDOTOKISIN -- SINGURUTEST WAKO
Legionella pneumophila antigen (Urinary)	Urine	BinaxNow Legionella
HIV-1,2 Antigen, antibody simultaneous measurement (Quantitative)	Serum	Alinity HIV Ag/Ab Comb Assay · Abott
HIV-1 specific antibody and HIV-2 specific antibody	Serum	Immunochromatography(Geenius HIV 1/2 kit)
d Hepatitis and relates		
HBe antigen	Serum	Alinity HBeAg · Abott
HBe antibody	Serum	Alinity HBeAb · Abott
HBs antibody (Quantitative)	Serum	Alinity · Anti-HBs
HBc antibody (Semi-quantitative, Quantitative)	Serum	Alinity HBc · Abott
e Autoantibody		
Anti RNP antibody (Semi-quantitative)	Serum	STACIA MEBLUX RNP
Anti Sm antibody (Semi-quantitative)	Serum	STACIA MEBLUX Sm
Anti Jo-1 antibody (Semi-quantitative)	Serum	STACIA MEBLUX Jo-1
Anti centromere antibody (Qualitative)	Serum	STACIA MEBLUX CENP-B
Matrix metalloproteinase-3 (MMP-3)	Serum	Banakuria MMP-3 [Ratekkusu]
Serine proteinase 3-anti-neutrophil cytoplasmic antibody (PR3-ANCA)	Serum	STACIA MEBLUX PR3-ANCA
Anti neutrophil cytoplasmic myeloperoxidase antibody (MPO-ANCA)	Serum	STACIA MEBLUX MPO-ANCA
Anti Thyroglobulin antibody	Serum	Alinity TgAb · Abott
Anti Thyroid peroxidase antibody	Serum	Alinity TPOAb · Abott
Anti TSH receptor antibody (TRAb)	Serum	Elecsys TRAb v2 Elecsys TRAb v2(S300)
Anti-nuclear antibody (immunofluorescence) (Semi-Quantitative)	Serum	FLUORO HEPANA TEST
Anti SS-A/Ro antibody (Semi-Quantitative)	Serum	STACIA MEBLUX SS-A
Anti SS-B/La antibody (Semi-Quantitative)	Serum	STACIA MEBLUX SS-B
Anti Scl-70 antibody (Semi-Quantitative)	Serum	STACIA MEBLUX Scl-70
Anti DNA antibody (Quantitative)	Serum	STACIA MEBLUX dsDNA
Anti citrullinated peptide antibody (Quantitative)	Serum	STACIA MEBLUX CCP
f Immunology for plasma protein		
CH50	Serum	Hotaika-HA Tesuto Wako



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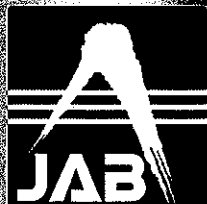
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**Scope of accreditation :**

Item	Type of Samples		Test Method
	Blood	Others	
β2-microglobulin	Serum	Urine	N-assay LAβ2MG-H I NITTOBO
Retinol binding protein (RBP)	Serum		N-Assei LA RBP Nittobo
Non-specific immunoglobulin IgE (Quantitative)	Serum		IATRO ACE IgE II
Transferrin (Tf)	Serum		N-assay TIA Tf-H Nittobo
Haptoglobin (Typing)	Serum		N-assay TIA Hp Nittobo
Transferrin (Prealbumin)	Serum		Pyuaoto S Prealbumin
g Cellular functional test (cellular immunity related test)			
B-Cell Surface immunoglobulin	Blood	Others	Flowcytometry
T and B lymphocyte subpopulation	Blood	Others	Flowcytometry
T lymphocyte subpopulation	Blood	Others	Flowcytometry
16 Microbiology			
b Bacterial culture and identification / Antimicrobial sensitivity test (general bacteria)			
Examination for drug sensitivity test, yeastlike fungi	Blood		Antifungal Susceptibility Testing of Yeasts
Drug susceptibility test for mycobacteria	Sputum	Others	Bit spectrum-SR BrosmicRGM BrosmicNTM
17 Gene-related / Chromosome test			
a Somatic gene test			
Preparation for HER2 gene specimen	Tissues		DISH
Gene diagnosis of hematopoietic organ tumor	Blood	Others	Nested RT-PCR method
b Identification of pathogen nucleic acid			
Nucleic acid identification of MRSA	Blood		Xpert MRSA/SA BC 「Cepheid」
Clostridioides difficile toxin	Feces		Xpert C. difficile "Cepheid"
Mycobacteria DNA	Sputum	Others	Gene Cube MTB
Mycobacterium avium / intracellulare DNA	Sputum	Others	
Quantification of HBV nucleic acid (Quantitative)	Plasma		COBAS TaqManHBV "AUTO"v2.0
HCV DNA (Quantitative)	Plasma		COBAS TaqManHCV "AUTO"v2.0
HIV-1 DNA (Quantitative)	Plasma		Cobas TaqManHIV "auto"v2.0
HIV-genotyping test for drug-resistant	Plasma		Direct sequencing
c Chromosome			
Chromosome	Blood	Others	culture, non-culture
Chromosome test	Blood	Others	G-band, FISH
d Germline gene test			
UDP uridine diphosphate glucuronosyltransferase	Blood		i-densy Pack UGT1A1(*28/*6)
e Others			
Preparation (for genetic test)	Tissues		paraffin sectioning, Hematoxylin-eosin stain
18 Others excluding 11 to 16 class			
a Therapeutic drug monitoring			
Digoxin	Serum		
Valproic acid, Carbamazepine	Serum		Valproic Acid Flex reagent cartridge, Carbamazepine Flex reagent cartridge





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Scope of accreditation :

Item	Type of Samples		Test Method
Phenytoin, Phenobarbital, Nitrazepam	Serum		Phenytoin Flex reagent cartridge(N) PTN, Phenobarbital Flex reagent cartridge(N) PHNO
Lithium	Serum		Lithium Flex reagent cartridge
Vancomycin, Gentamicin	Serum		Vancomycin Flex reagent cartridge(N) VANC, Gentamicin Flex reagent cartridge(N) GENT
Cyclosporin, Tacrolimus hydrat, Mycophenolate mofetil	Blood		Cyclosporine Flex reagent cartridge CSA, Tacrolimus Flex reagent cartridge TAC, Flex reagent cartridge MPAT
Methotrexate	Serum		AlinityMethotrexate • Abott
<b>Pathology</b>			
<b>31 Preparation</b>			
<b>a Preparation for histodiagnosis</b>			
Organize slices	Tissues		Hematoxylin · eosin stain Phenol congo red stain
CELL BLOCK	Tissues		Phenol Congo Red stain
<b>c Preparation for immunological stain (histodiagnosis)</b>			
Estrogen receptor	Tissues		Enzyme antibody method
Progesterone receptor	Tissues		Enzyme antibody method
Human epidermal growth factor receptor-2	Tissues		Enzyme antibody method
Anaplastic lymphoid kinase fusion protein	Tissues		Enzyme antibody method
CD30	Tissues		Enzyme antibody method
PD-L1	Tissues		Enzyme antibody method
Others	Tissues		Enzyme antibody method
<b>d Preparation for rapid pathologic daiagnosis</b>			
Preparation for operative rapid pathologic daiagnosis	Tissues		Hematoxylin · eosin stain
Preparation for operative rapid cytodiagnosis	Others		Papanicolaou stain
<b>e Cytodiagnosis</b>			
<b>Gynecology</b>			
Fine needle aspiration cytology,Body cavity washing	Punctured fluid	Others	Papanicolaou stain Papanicolaou stain Giemsa stain Alcian blue stain
<b>32 Pathological diagnosis</b>			
<b>a Pathological diagnosis</b>			
Histology	Tissues		Hematoxylin · eosin stain
Cytology	Others	Urine	Papanicolaou stain



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Scope of accreditation :

Item	Type of Samples	Test Method
<b>Physiology</b>		
101 Physiology		
a Respiratory function test (Spirography)		
Slow vital capacity		FUDAC-7
Forced vital capacity		FUDAC-7
Functional Residual Capacity		FUDAC-7
Closing volume		FUDAC-7
DLCO (diffusing capacity of CO)		FUDAC-7
b Electrocardiogram		
At least 12 leads including limb monopole lead and the chest leads		Cardimax9 FCP-9900
Holter Electrocardiogram		SCM-8000 FM-1500
d Electroencephalography		
Electroencephalography (PS, HV)		Neuropack EEG-1524
Electromyography (SEP, VEP, ERA, ABR audiometry, others)		Neuropack MEB-2312