#### Collecting and handling methods of samples

#### **Blood**

[Timing of blood sampling] Ideally, blood samples are collected when well-rested and after fasting in the early morning (except for emergency situations or specified conditions).

[Collecting samples]

- Blood: After taking blood, promptly transfer to a specified tube containing the anticoagulant, and gently invert the tube. Unless otherwise specified, specimens to be stored at room temperature or under refrigeration should be kept in the original tubes, and those to be stored frozen should be transferred to submission containers. Submit the specimens under the specified storage conditions.
- O Serum: Collect about 3 times the volume of blood needed for the test.

Unless otherwise specified, allow to stand at room temperature. After coagulation, centrifuge the blood. After centrifugation, transfer the supernatant to a submission container. Submit the specimens under the specified storage conditions.

The storage condition depends on the tests, so please check it for each test.

O Plasma: Collect about 3 times the volume of blood needed for the test.

Unless otherwise specified, after drawing blood into a specified tube containing the anticoagulant, promptly invert the tube, and centrifuge the blood.

After centrifugation, transfer the supernatant to a submission container. Submit the specimens under the specified storage conditions.

Sampling methods and storage conditions depend on the tests, so please check comments,

storage conditions, and handling methods of containers for each test.

If the volume of the collected blood is less than the volume defined in the container, it may give influence on the data of some items. Make sure to collect the specified volume of blood.

#### [Points to note]

O Blood sampling into vacuum tubes

If collected blood volume is below the specified volume of the tube, the pressure inside the tube remains negative, which may cause hemolysis. Make sure to collect the specified volume of blood.

Blood sampling into syringes

Take off the needle from the syringe, and slowly inject the needle. Draw blood along the side of the tube.

O Preventive measures against hemolysis

Avoid putting excess pressure or foaming of blood when drawing blood. Use a completely dried blood sampling tube.

Avoid physical stimulation (e.g., extremely high or low temperature, vibration, etc.).

#### Urine

#### [Random urine]

Collect urine into a urine sampling container, and transfer the necessary volume of urine into a submission container. Submit the specimen under the specified storage conditions.

Some tests specify the timing of urine sampling; therefore, please check the comments and handling methods of dedicated containers for each test.

#### [24 hours urine collection]

At the starting time point of urine collection, instruct a patient to urinate completely (that should be flushed). Then, collect all urine in a storage container in the following 24 hours period. During the time of urine collection, the storage container should be covered by a lid and kept in a cold and dark place.

After the urine collection, measure the urine volume, mix well, and transfer the necessary volume of the specimen into a submission container. Write the collection time period and urine volume, and submit the specimen under the specified storage conditions.

Acidified urine collection

Depending on the tests, SRL uses following methods of acidified urine collection to preserve and stabilize specimens. For some tests, acidified urine may have an effect on the data; therefore, please make sure to check comments for each test.

1. Using preservatives

Regardless of the urine volume, put all dedicated preservatives (the tablet and granules) into a storage container for urine collection.

2. Using hydrochloric acid

Put the specified amount of 6N hydrochloric acid into a storage container for urine collection. (Please check comments for the specified amount of hydrochloric acid and points to note for each test.)

Startin Sta		—————————————————————————————————————
-	24 hours urine collection (Collect	urine also when having a bowel movement.)
Urir (Disc		Collect urine (Even if a patient does not feel like urinating)

#### Sending in samples for coagulation test (extraction from consensus on handling of coagulation test samples)

#### [Blood collection tube]

- · Use the tube made of plastic or glass treated with silicon.
- · Use 0.105-0.109M (3.13-3.2%) sodium citrate solution for anticoagulant.
- The ratio of sodium citrate solution to blood is 1: 9. Acceptable volume of blood collection should be nominal capacity ± 10%.
- · For patients with hematocrit level (Ht)≥55%, adjust the volume of sodium citrate solution.

#### [Blood collection]

Comply with JCCLS standard blood collection guideline GP4-A2.

- · Vacuum or syringe blood collection can be done.
  - Vacuum blood collection using a blood collection needle: collect first blood specimen using a coagulation test tube or blood serum collection tube.
  - Vacuum blood collection tube using a butterfly needle: collect first blood specimen using a dummy blood collection tube or a blood collection tube for other tests before blood collection in a tube for coagulation test
  - Syringe blood collection: Transfer first blood specimen into a blood collection tube for coagulation test.
- · Aseptic needling should be applied with minimum blood flow stagnation (use of tourniquet).
- · Use 21- 23G injection needle or butterfly needle depending on individual situations
- · Don't use a venous line that contains heparin.
- Confirm that the accurate volume of blood has flown into the blood collection tube. Invert the tube immediately 5 times to mix the blood and anticoagulant without forming bubbles.

#### [Confirmation of coagulated samples]

Samples may be coagulated at the time at the time of arrival in the laboratory, especially when taken from patients with difficulty of blood collection. If coagulation is confirmed before centrifuge, whether the test will be continued after re-collection of blood or discontinued will be discussed with the clinician.

#### [Supplementary information]

According to the CLSI Approved guideline 5th ed H21-A5, blood collection via a vascular access device (VAD) should be done with no air leak confirmed, avoiding heparin flush wherever possible to prevent contamination or dilution with heparin.

More specifically, flush with 5mL of saline, and discard blood of 5 mL or 6-folds of VAD dead space volume before sample collection.

It is clearly stated that blood collection from saline lock (cap-off intravenous port) should be done after discarding twice the volume of dead space of catheter and the extension set.

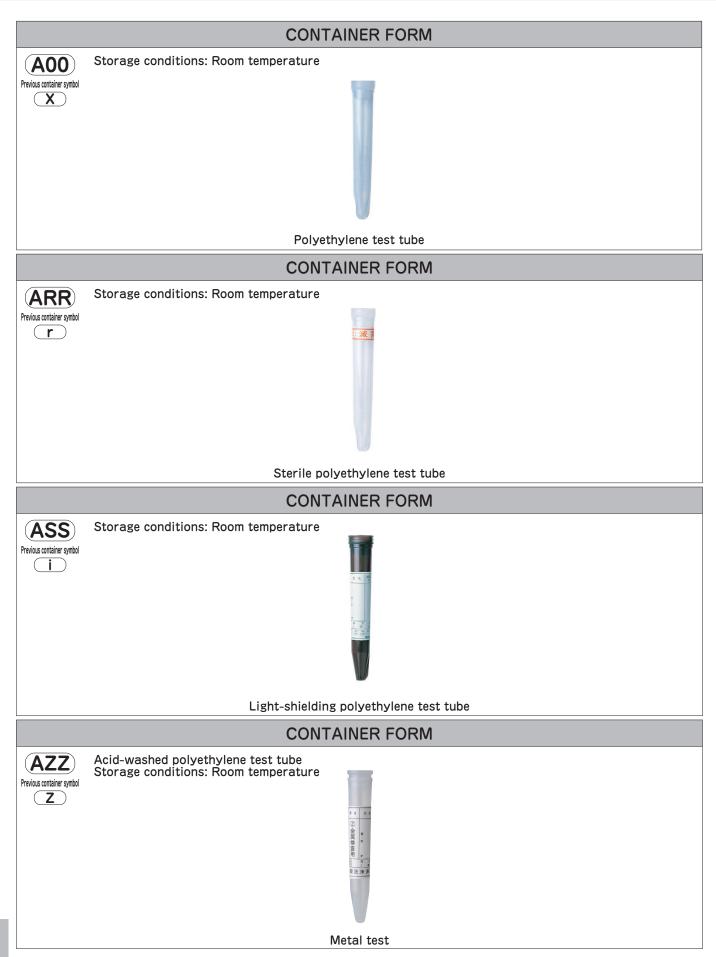
#### **(Reference)**

Coagulation test standardization working group, Standardization Committee of Japanese Society for Laboratory Hematology

Consensus on handling of coagulation test samples, 17, 149-168, 2016.

#### About dedicated containers

The dedicated containers presented in each page are prepared by SRL. Please contact the nearest office for the containers. Please regard the self-life as a reference.



F

#### container handling method

IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED   (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD	
	Adenovirus DNA	stool 500mg	F	Collect 500mg of stool in the designated container, and be sure to store frozen.  Avoid putting in another request at the same time. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.	
Stool container Storage conditions: Room temperature	Storage conditions: Room	Norovirus antigen	stool		Place 0.5g (little-finger head size) of stool collected from center of stool
		Norovirus RNA, qualitative	size	1.3	into a container shown in the left image, and be sure to freeze.
	Fecal calprotectin	stool 1g		Place 1g (thumb-head size) of stool into a container shown in the left image, and be sure to freeze.	
	Digestion state	stool Thumb-head size	R	Place 1g (thumb-head size) of stool into a container shown in the left image, and refrigerate the specimen.	
	Entamoeba histolytica DNA qualification	stool 0.5g	F	Place 0.5g (little-finger head size) of stool collected from center of stool into a container shown in the left image, and be sure to freeze.	
	Stool container Storage conditions: Room	Stool container Storage conditions: Room temperature  Storage conditions: Room temperature  Fecal calprotectin  Digestion state  Entamoeba histolytica DNA	Stool container Storage conditions: Room temperature  Stool Calprotectin  Digestion state  Italia (mL)  Stool (mL)  Stool 500mg  Stool Little-finger head size  Stool 1g  Thumb-head size  Stool Thumb-head size	Stool container Storage conditions: Room temperature  Adenovirus DNA  Stool 500mg  F  Norovirus antigen  Norovirus RNA, qualitative  Fecal calprotectin  Digestion state  Entamoeba histolytica DNA  Stool 500mg  F  Stool Thumb-head size  F	

#### CONTAINER FORM

(F30)

Previous container symbol



Contents: tris buffer BSA sodium azide (≤ 0.1%)

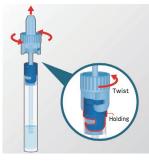
Storage conditions: Refrigeration

Self-life: 24 months

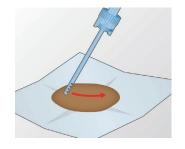
#### **TEST NAME**

Fecal calprotectin(FEIA)

#### SAMPLE HANDLING METHOD



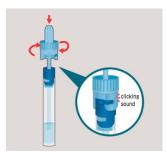
 While holding the blue part of the cap, twist the top light blue part to the left to pull out the stick.



2. Scrape the stool to completely fill up the 4 grooves at the tip of the stick.



3. Remove the stool at the tip with toilet paper, etc.



Put the stick into the container and twist the light blue part to the right until it fits into the blue part with a clicking sound.

#### Note

Do not expose eyes, mouth or skin to the preservation solution in the container. If accidentally exposed, rinse well with water.

CONTAINER FORM	TEST NAME	STORE TEMPERATURE SAMPLING METHOO	SAMPLING METHOD
Previous container symbol  d7  Dedicated container for fecal Helicobacter pylori antigen  Additives: Phosphate buffer 1.0 mL Storage conditions: Room temperature Self-life: 1 year	Fecal Helicobacter pylori antigen	R	<ol> <li>Open up the label that is rolled around the handle of the sampling brush, fill out the fields of the label, and roll the label up to the original state.</li> <li>Stick and rotate the brush in the feces so that a portion of feces is caught by the brush.</li> <li>Insert the sampling brush into the container from which the aluminum seal has been taken off, and screw the brush firmly into the container. Then, gently shake the container 5 to 6 times.</li> <li>Put the container in an attached plastic bag, and store in a cold and dark place. Promptly submit the specimen.</li> <li>(Note) Do not remove the blue cap.</li> </ol>
CONTAINER FORM	TEST NAME	STORE TEMPERATURE	SAMPLING METHOD
F80 Previous container symbol	Hemoglobin and transferrin in feces		<ul> <li>Sampling methods</li> <li>Rotate the screw cap, and pull out the stick. Scrape the wide surface of the stool with the sampling probe.</li> </ul>
####################################	Hemoglobin in feces, qualitative Gold colloid method	R	<ol> <li>Place the stick back into the container (do not reinsert), and firmly tighten the screw cap.</li> <li>Put the container in an attached bag. Then, refrigerate and submit the specimen.</li> <li>Points to note</li> <li>Do not throw away preservation solution in the container.</li> <li>Cover the grooved portion of the sampling probe</li> </ol>
Additives: Preservation solution Storage conditions: Room temperature Self-life: 1 year	Hemoglobin in feces, quantitative Gold colloid method		completely with stool sample. Do not scrape up too much or too little stool. No food restrictions are necessary before fecal sampling.

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD									
Previous container symbol		Leukemia/lymphoma analysis (LLA), CD45 gating, test for hematopoietic malignant tumor cells				Collect the specified amount of sample, mix well, and refrigerate.									
		Multiple myeloma analysis CD38 multianalysis, test for hematopoietic malignant tumor cells		bone marrow		Please submit a sample on the day it is collected.									
		Chromosome G-Banding	bone marrow fluid 1.0 each												
	Containing the preservation solution (Container capability of 5 mL)	Chromosome analysis using spectral karyotyping (SKY)(Hematological disorder)		1.0 each		Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it									
	Additives: RPMI-1640	TCF3-PBX1 t(1;19) translocation				is collected.									
用 <b>印</b>	FBS Kanamycin	CKS1B 1q21 amplification													
保存液入り用・ター・オー・ストー・ストー・ストー・ストー・ストー・ストー・ストー・ストー・ストー・スト	sulfate Novo-heparin sodium Sodium bicarbonate HEPES Storage conditions: Freeze Self-life: Use this after confirming that the solution color	ALK 2p23	lymph node 5×5×5 mm	lymph node (with the preservation solution) 5×5×5 mm		Place lymph nodes $5\times5\times5$ mm in size in a container shown in the left image, suspend, and refrigerate. Please submit a sample on the day it is collected.									
採取日 各級計廠方法 使用期發製: <sub>16</sub>		translocation	bone marrow	bone marrow fluid (with the	R	illiage aseptically, illix well, allu									
		Freeze Self-life: Use this after confirming that the	Freeze Self-life: Use this after confirming	Freeze	Freeze Self-life:	Freeze Self-life:	Freeze Self-life:	Freeze Self-life:	Freeze Self-life:	Freeze Self-life:	GATA2-MECOM inv(3) inversion, t(3;3) translocation	each	preservation solution) 1.0 each		refrigerate the specimen. Please submit a sample on the day it is collected.
				BCL6 3q27		lymph node (with the preservation solution) 5×5×5 mm		Place lymph nodes 5×5×5 mm in size in a container shown in the left image, suspend, and refrigerate. Please submit a sample on the day it is collected.							
	has turned to pale pink. The color turns to pale	IGH-FGFR3 t(4:14)													
	yellow after freezing and	translocation													
	to pale pink after thawing.	FIP1L1-PDGFRA 4q deletion (4q12 deletion)													
		CSF1R 5q deletion	bone	bone marrow fluid (with the		Obtain 1.0 mL of bone marrow fluid into a container shown in the left									
		EGR1 5q deletion	marrow fluid 1.0 each	preservation		image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.									
		PDGFRB 5q32 translocation		1.0 each											
		D7S486 7q deletion/ Chromosome 7 monosomy													
		Chromosome anomaly associated with hematological disorders, Chromosome 8													

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD				
Previous container symbol		MYC 8q24 translocation	bone marrow fluid 1.0	bone marrow fluid (with the preservation solution) 1.0		Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.				
			lymph node	lymph node (with the		Place lymph nodes 5×5×5 mm in size in a container shown in the left image,				
		IGH-MYC t(8;14) translocation	5×5×5 mm each	preservation solution) 5×5×5 mm each		suspend, and refrigerate. Please submit a sample on the day it is collected.				
	Containing the preservation	RUNX1-RUNX1T1								
	solution (Container capability of 5 mL)	(AML1-MTG8) t(8;21) translocation	bone	bone marrow		Obtain 1.0 mL of bone marrow fluid into a container shown in the left				
	Additives: RPMI-1640	FGFR1 8p11.2 translocation	marrow fluid 1.0 each			image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it				
瀬目 底	FBS Kanamycin sulfate	BCR-ABL1 t(9;22) translocation	-	1.0 each		is collected.				
保存液入り用・女・女・女・女・女・女・女・女・女・女・女・女・女・女・女・女・女・女・女	Novo-heparin sodium Sodium Sodium bicarbonate HEPES Storage conditions: Freeze Self-life: Use this after confirming that the solution color	KMT2A(MLL) 11q23.3 translocation								
學取日 有例是實力達 使用期度:16		HEPES Storage conditions: Freeze Self-life: Use this after confirming that the	HEPES Storage conditions:	HEPES Storage conditions:	HEPES Storage conditions:	HEPES Storage conditions:	HEPES Storage conditions:	HEPES Storage conditions:	IGH-CCND1 (IGH-BCL1) t(11;14)   Imph node (with the preservation solution) 5×5×5 mm   Imph node (with	Place lymph nodes 5×5×5 mm in size in a container shown in the left image, suspend, and refrigerate. Please submit a sample on the day it is collected.
			NUP98 11p15 translocation	bone marrow fluid 1.0 each	bone marrow fluid (with the preservation solution) 1.0 each		Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.			
	pale pink. The color turns to pale yellow after freezing and	le BIRC3-MALT1 r (API2-MALT1) d t(11;18)	lymph node 5×5×5 mm	lymph node (with the preservation solution) 5×5×5 mm		Place lymph nodes 5×5×5 mm in size in a container shown in the left image, suspend, and refrigerate. Please submit a sample on the day it is collected.				
	to pale pink after thawing.  ATM 11q	ATM 11q								
		Chromosome anomaly associated with hematological disorders, Chromosome 12	bone marrow fluid 1.0 each	bone marrow fluid (with the preservation solution) 1.0 each		Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.				
		ETV6-RUNX1 (TEL- AML1) t(12;21) translocation								
		D13S319 13q deletion								

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD					
Previous container symbol		IGH-BCL2 t(14;18) translocation	lymph node 5×5×5 mm	lymph node (with the preservation solution) 5×5×5 mm		Place lymph nodes 5×5×5 mm in size in a container shown in the left image, suspend, and refrigerate. Please submit a sample on the day it is collected.					
		IGH-MAF t(14;16) translocation	bone marrow fluid 1.0 each	bone marrow fluid (with the preservation solution) 1.0 each		Obtain 1.0 mL of bone marrow fluid					
				PML-RARA t(15;17) translocation  CBFB inv(16) inversion, t(16;16)  bone marrow fluid marrow fluid 1.0 each solution)		into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.					
	Containing the preservation solution (Container capability of 5 mL)  Additives:	translocation TP53 17p deletion BCL2 18q21 translocation		1.0 each  lymph node (with the preservation solution) 5×5×5 mm		Place lymph nodes 5×5×5 mm in size in a container shown in the left image, suspend, and refrigerate. Please submit a sample on the day it is collected.					
探取後	RPMI-1640 FBS Kanamycin sulfate Novo-heparin sodium	20q deletion	bone marrow fluid 1.0 each	bone marrow fluid (with the preservation		Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.					
保存液入り用を取り入り用を取ります。	Sodium bicarbonate HEPES  Storage conditions: Freeze  Self-life: Use this after confirming that the	Chromosome anomaly associated with hematological disorders, Chromosome X									
		Chromosome anomaly associated with hematological disorders, Chromosome Y									
		solution color has turned to pale pink. The color turns to pale yellow after freezing and to pale pink after	solution color has turned to pale pink. The color turns to pale yellow after freezing and to pale pink after	Sex-mismatched bone marrow transplantation (BMT) (Chromosomes XY)							
				freezing and to pale pink after	freezing and to pale pink after	freezing and to pale pink after	freezing and to pale pink after	freezing and to pale pink after	freezing and to pale pink after	1p Deletion  MYCN 2p24	tissues 5×5×5 mm for each
		amplification	bone marrow fluid 1.0	bone marrow fluid (with the preservation solution) 1.0		Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.					
		19q Deletion	tissues 5×5×5 mm for each	tissues (with the preservation solution) 5×5×5 mm		Place tissues5×5×5 mm in size in a container shown in the left image, suspend, and refrigerate. Please submit a sample on the day it is collected.					
		EWSR1 22q12 translocation	bone marrow fluid 1.0 each	each bone marrow fluid (with the preservation		Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.					

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	
Previous container symbol		FLT3/ITD mutation analysis				Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.
	Containing the preservation solution (Container	KIT sequence analysis (leukemia)				Draw blood to obtain 1.0 mL of bone marrow fluid into a container shown in the left image, mix well, and refrigerate the specimen. Avoid putting in another request at the same time. In this method, the result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
	capability of 5 mL) Additives: RPMI-1640 FBS	NPM1 mutational analysis				
採取後	FBS Kanamycin sulfate Novo-heparin sodium Sodium bicarbonate HEPES Storage conditions:	Screening of chimeric genes related to leukemia, quantitative	bone	bone marrow fluid		Collect the specified amount of sample, mix well, and refrigerate. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
海目 氐		WT1 mRNA quantitative	marrow fluid 1.0 each	preservation	R	
保存液入り用・ター・ター・ター・ター・ター・ター・ター・ター・ター・ター・ター・ター・ター・	Freeze Self-life: Use this after	Freeze Self-life: Use this after confirming that the solution color has turned to pale pink. The color turns to pale				Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it
字	that the solution color					
	pale pink. The color					
	freezing and to pale pink after thawing.	minor BCR-ABL1 mRNA, quantitative				is collected.
		minor BCR-ABL1 mRNA, qualitative				
		Mutation analysis in the ABL1 region, minor BCR-ABL1				

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD
HOO Previous container symbol H  採取後  (HOO) 和日 医  で 機関  (A) の 以 女 展  を で 機関  (A) の 以 女 展  (A) の は 女 展 の は 女 教 女 教 女 教 女 教 女 教 女 教 女 教 女 教 女 教 女	Containing the preservation solution (Container capability of 5 mL)  Additives: RPMI-1640 FBS Kanamycin sulfate Novo-heparin sodium bicarbonate HEPES  Storage conditions: Freeze  Self-life: Use this after confirming that the solution color has turned to pale pink. The color turns to pale yellow after freezing and to pale pink after thawing.	TCF3-PBX1 mRNA, quantitative  TCF3-PBX1 mRNA, qualitative  PML-RARA mRNA, quantitative  PML-RARA mRNA, qualitative  CBFB-MYH11 mRNA, quantitative  CBFB-MYH11 mRNA, quantitative  RUNX1-RUNX1T1 mRNA, quantitative  RUNX1-RUNX1T1 mRNA, qualitative  RUNX1-MECOM mRNA, qualitative  ETV6-RUNX1 mRNA, quantitative  ETV6-RUNX1 mRNA, quantitative  ETV6-RUNX1 mRNA, quantitative  ETV6-RUNX1 mRNA, quantitative	bone marrow fluid 1.0 each	bone marrow fluid (with the preservation solution) 1.0 each	B	Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
Previous container symbol		KMT2A-AFF1 mRNA, quantitative KMT2A-AFF1 mRNA,	(1114)	VIII		
		qualitative KMT2A-AFDN mRNA, quantitative KMT2A-AFDN mRNA, qualitative				
		KMT2A-MLLT3 mRNA, quantitative				
	Containing the preservation solution (Container	KMT2A-MLLT3 mRNA, qualitative				
	capability of 5 mL) Additives:	KMT2A-MLLT1 mRNA, quantitative				
	RPMI-1640 FBS Kanamycin	KMT2A-MLLT1 mRNA, qualitative NUP98-HOXA9		bone marrow		Obtain 1.0 mL of bone marrow fluid
採取後/ (H00) <sup>取目   長</sup>	sulfate Novo-heparin sodium Sodium	mRNA, quantitative	-			
保存液入り用・女	bicarbonate HEPES Storage conditions:	mRNA, quantitative DEK-NUP214	bone marrow fluid 1.0 each	fluid (with the preservation	R	into a container shown in the left
国取日 在外的"成为" 使用期限:16	Freeze Self-life: Use this after confirming	mRNA, quantitative DEK-NUP214 mRNA, qualitative		1.0 each		is collected.
	that the solution color has turned to pale pink.	T-cell receptor β-chain Cβ1 rearrangement				
	The color turns to pale yellow after freezing and	T-cell receptor $\beta$ -chain J $\beta$ 1 rearrangement				
	to pale pink after thawing.	T-cell receptor β-chain Jβ2 rearrangement				
		T-cell receptor y-chain Jy rearrangement T-cell receptor				
		$\delta$ -chain J $\delta$ 1 rearrangement Immunoglobulin				
		H-chain JH rearrangement Immunoglobulin				
		H-chain C µ rearrangement Immunoglobulin				
		L-chain J <i>k</i> rearrangement				

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD	
Previous container symbol	Containing the	Immunoglobulin L-chain C r rearrangement				Obtain 1.0 mL of bone marrow fluid into a container shown in the left image aseptically, mix well, and	
	Containing the preservation solution (Container capability of 5 mL)  Additives: RPMI-1640 FBS Kanamycin sulfate Novo-heparin sodium Sodium bicarbonate HEPES  Storage conditions: Freeze  Self-life: Use this after confirming that the solution color has turned to pale pink. The color turns to pale	Immunoglobulin L-chain Cλ rearrangement		bone marrow		refrigerate the specimen. Please submit a sample on the day it is collected.	
		chimerism analysis, pre-transplant, recipient, PCR  Chimerism analysis, pre-transplant, recipient, PCR  Chimerism analysis, pre-transplant, recipient, PCR  Chimerism analysis,	fluid (with the preservation solution) 1.0 each				
採取後 (H00)					R	Collect the specified amount of sample, mix well, and refrigerate. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful	
集目 保存 で液		Freeze	donor, PCR	cord blood 1.0	blood (with the preservation solution) 1.0		attention when collecting and handling samples.
保存 現存 ルク用 単数 取の関連 第1:1			bone marrow fluid 1.0	bone marrow fluid (with the preservation solution) 1.0			
	yellow after freezing and to pale pink after thawing.	DNA histogram	bone marrow fluid 1 × 10 <sup>7</sup> cells	bone marrow fluid (with the preservation solution) 1 × 10 <sup>9</sup> cells		Collect the specified amount of sample, mix well, and refrigerate. Please submit a sample on the day it is collected.	

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
Previous container symbol	Containing the preservation solution (Container capability of 10 mL)  Additives: FBS	Malignant lymphoma analysis (MLA), CD45 gating, test for hematopoietic malignant tumor cell	lymph node 5×5×5	lymph node (with the preservation		Place lymph nodes 5×5×5 mm in size in a container shown in the left image,
Of the state of th	PBS Kanamycin sulfate Storage conditions: Freeze Self-life: 1 year	Malignant lymphoma analysis, 7AAD analysis, test for hematopoietic malignant tumor cells	mm each	solution) 5×5×5 mm each		suspend, and refrigerate. Please submit a sample on the day it is collected.
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
M30 Previous container symbol	Containing deproteinization solution (Content volume of 1 mL) Additives: 0.8 N perchloric acid Storage	Lactic acid	whole blood 1.0 each	Deproteinized supernatant 0.4 each	R	Immediately after blood sampling, pipette accurately 1.0 mL of blood into the dedicated container. After stirring thoroughly, centrifuge the tube at 3000 rpm for 5 minutes, and submit the supernatant.
200	conditions: Refrigeration Self-life: 1 year	Pyruvic acid				
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
Previous container symbol	Containing deproteinization solution (Content volume of 4 mL)  Additives: Sodium tungstate, sulfuric acid Storage conditions: Refrigeration	Ammonia	whole blood 1.0	Immediately Deproteinized supernatant 3	F	Immediately after blood sampling, pipette accurately 1.0 mL of blood into the dedicated container. After stirring thoroughly, centrifuge the tube at 3000 rpm for 5 minutes, and submit the supernatant.
	Self-life: 1 year					

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD
Previous container symbol  75	Containing deproteinization solution (Content volume of 0.5 mL)  Additives: 0.8 N perchloric acid  Storage conditions: Refrigeration  Self-life: 1 year	Light Shielding Vitamin C (ascorbic acid)	serum 0.5	deproteinized supernatant 0.5	F	Immediately after blood sampling, separate serum, and pipette accurately 0.5 mL of serum into the dedicated container. After stirring thoroughly, centrifuge the tube at 3000 rpm for 5 minutes. Transfer the supernatant into a light-shielding polyethylene test tube (ASS), freeze, and submit the specimen under frozen conditions.
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD
PAC Previous container symbol  B	Containing ACD-A solution  Additives:     ACD-A solution  Storage conditions:     Room temperature  Self-life:     1 year (1 month after opening the aluminum package)	Platelet associated Immunoglobulin G (PAIgG )	whole blood 7.5	whole blood (with ACD-A solution) 7.5	R	After drawing the specified amount of blood, inject the blood into a container shown in the left image. After mixing well, refrigerate the specimen. (Note) If peripheral platelet count is $\leq 3 \times 10^4/\mu$ L, use two dedicated tubes to surely collect at least 10 mL of blood.
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD
PAP Previous container symbol	Containing EDTA-2Na and aprotinin (3mL vacuum blood	Parathyroid hormone related peptide (PTHrP)		Refrigerated plasma 0.5 each		After drawing blood into a container shown in the left image, mix well, and separate plasma at low temperature (4°C). Be sure to freeze the plasma sample for storage.
	Additives: EDTA-2Na	Pancreatic glucagon		Immediately Plasma 0.5 each		Draw blood into a container shown in the left image, mix well, separate plasma at low temperature ( $4^{\circ}$ C), and freeze the specimen immediately.
関いアドモ A0305-1720 ランパボ Re の	3.75 mg Aprotinin (1500 units)  Storage conditions: Room temperature  Self-life: 1 year	Glucagon (IRG)	whole blood 1.5-2.0 each	Refrigerated plasma 0.5 each	F	After drawing blood into a container shown in the left image, mix well, and separate plasma at low temperature ( $4^{\circ}C$ ). Be sure to freeze the plasma sample for storage.
		Human atrial natriuretic peptide (HANP)		Immediately Plasma 0.5 each		Draw the specified amount of blood into a container shown in the left image in resting conditions, mix well, and separate plasma at low temperature (4°C).  Be sure to freeze the plasma sample for storage.

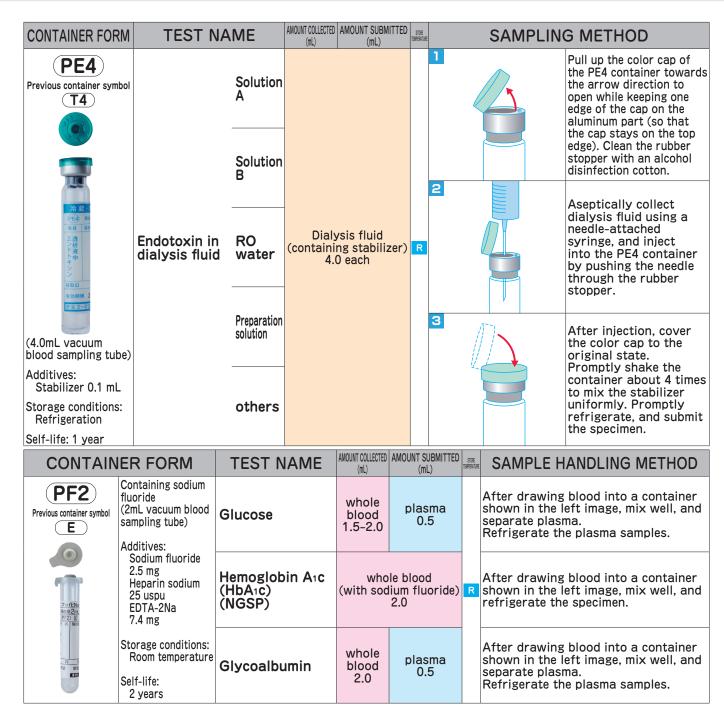
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD	
Previous container symbol	Containing EDTA-2Na and approtinin (3ml	GLP-1 (active)					
D	aprotinin (3mL vacuum blood sampling tube)  Additives: EDTA-2Na 3.75 mg Aprotinin (1500 units)  Storage conditions: Room temperature	vacuum blood sampling tube)  Additives: EDTA-2Na 3.75 mg Aprotinin (1500 units)  Storage conditions: Room  Active glucagon-like peptide-1, extraction  Whole blood 1.5-2.0 each insulinotropic polypeptide, extraction	like peptide-1,				After blood sampling to a container shown in the left image, add DPP-
開放・性 A 23D			Immediately plasma 0.5 Refrigerated each	F	IV inhibitor (10 $\mu$ L per 1.0 mL of blood). After mixing, centrifuge the mixture under refrigerated conditions. After plasma separation, freeze the specimen immediately.		
	Self-life: 1 year	GIP (active)					

CONTAIN	ER FORM	TE	EST NAME	AMOUNT COLI	LECTED AMOUNT SUBMITT	TED STORE TEMPERA-	SAMPL	E HAI	NDLIN(	G ME	THOD	
PAR Previous container symbol  B1	conditions: Room	cros	v cytometry ssmatch, ohocyte ssmatch test	who bloo 7.5	d ACD-A	R	After drav blood, inje shown in well, and	ect the the left	blood ir image.	nto a c After	ontainer mixing	
CONTAINER FORM	TEST NAME	STORE TEMPERATURE			SAMPI	LING	METHO	DD				
PBT Previous container symbol	<b>β</b> -				Cool the dedicontainer (Pladvance.  Collect 3.0 mL in a plastic sy 20 gauge need (19-21 gauge)	of bl ringe lle, if needl	ood sample with a possible e is also	surfacthe de below water Do not samplir not use	t use ice use any v g tube, ca g method any tour	ecimer conta face o e cuber acuum atheter, is. Also, niquets	iner is f the ice s. blood or other do . Avoid	
原子学がある。	thromboglobulin (β-TG)	ו			acceptable). (I blood samples dedicated confidence the no open the cap container (PB transfer 2.7 m sample into the tube slow	directainer eedle of the T) to nL of ne tub ly 2 t	tly using a [PBT].) and gently dedicated gently the blood e. Invert o 3 times.	drawing ≥10 mL of blood. Collect blood smoothly while avoiding any damage to the vascular walls.  Use only the dedicated container. Do not shake the dedicated container.  Make sure that the surface				
(Do not use a vacuum tube.) Containing antiplatelet		F	Proce	eed to	dedicated con rack with cru water.  the following the to	ished	ocedures	contai surfac	od in th iner is b ce of the 2 minu	elow t	he	
agent  Additives: Theophylline Adenosine Dipyridamole Sodium citrate Citric acid	Platelet factor-4 (PF-4)				crushed ice-water minutes, centrifuge for 30 minutes at 2 below shows the ro speed [rpm] at 2000 rotating speed of th $G=1.118\times10^{-5} x$	After allowing the tube to stand in a crushed ice-water mixture for 15 to 30 minutes, centrifuge the tube at 2000 g for 30 minutes at 2 to $4^{\circ}$ C. (The table below shows the rotor radius and the speed [rpm] at 2000 G.)*Equation of the rotating speed of the centrifuge G = 1.118 × $10^{-5}$ × r × $n^2$ r:radius of the centrifuge rotor (cm)			Make sure to centrifuge within 1 hour under cool conditions.  Conversion table  Radius Speed Radius Speed (cm) (rpm) (cm) (rpm)			
Storage conditions: Refrigeration and protection from light Self-life: 1 year					Collect 0.3 mL of supe sample from a little lo into a specimen conta Do not collect the s the pellet. (Avoid collecting a Make sure to freez (stability for 1 mor	ernatant wer that iner usin superna II plasm e the sp	per testing the surface g a micropipette. tant close to	10 12 14 16 18 20	4200 3800 3500 3300 3100 3000	22 24 26 28 30	2800 2700 2600 2500 2400	

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD	
PC2		Heparin		Immediately plasma 0.3			
Previous container symbol		Activated partial thromboplastin time (APTT)					
		Prothrombin time (PT)		plasma 0.5			
		Thrombotest (TT)		each			
		Fibrinogen (FIB)					
		Soluble fibrin monomer complex (SFMC)		Immediately plasma 0.3			
	Containing	Fibrin monomer complex, quantitative		Immediately plasma 0.5		Draw 1.8 mL of blood into a tube	
0	3.2% sodium citrate (1.8mL vacuum	FDP, quantitative		Immediately plasma 0.3		containing 0.2 mL of 3.2% sodium citrate, invert the tube 5 to 6 times, and promptly separate plasma.	
	blood sampling tube)	D-dimer	whole blood 1.8 each	Immediately plasma 0.5		Be sure to freeze the plasma sample or storage.	
3.2%少工》	Additives: 3.2% sodium citrate 0.2 mL  Storage conditions: Room temperature  Self-life: 1 year (1 month after	Prothrombin fragment F1+2		plasma 0.3		(When submitting ≥1.8 mL of blood with multiple test requests, use the PC5 container.)	
元名 施設		Antithrombin III (AT-III)			F	[Points to note] * Please be advised of the following procedures for total PAI-1.	
月防法		Thrombin/ Antithrombin complex III (TAT)		plasma   nmediately 0.5		Use the PC2 container for sampling, and be sure to centrifuge blood under refrigerated conditions.     Avoid centrifugation at room	
35178		Plasminogen		each		temperature or using the PC5 container, because such procedures may cause increasing the values.	
	opening the plastic case that contains	Antiplasmin ( $\alpha_2$ plasmin inhibitor)				2. If the sample cannot be separated immediately, put it in ice water and separate plasma within 1 hour.	
	25 tubes)	Plasmin-α <sub>2</sub> -plasmin inhibitor complex (PIC test)		Immediately plasma 0.2		Coparate piaema within Friedri	
		Total PAI-1 (tPA/PAI-1 complex)		Immediately plasma Refrigerated 0.5			
		Coagulation factor activity test  Factor WI (F8), Chromogenic Substrate method Factor IX (F9), Chromogenic Substrate method		plasma 0.3 each			

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD							
PC2		Factor II (F2)											
Previous container symbol		Factor V (F5)											
	Factor VII (F7)												
		Coagulation factor activity test  Coagulation Factor IX (F9)											
			plasma 0.4 each										
		Factor X (F10)		Gdoii									
		Factor XI (F11)											
0		Factor XII (F12)				Draw 1.8 mL of blood into a tube							
	Containing 3.2% sodium citrate	Factor XIII (F13)				containing 0.2 mL of 3.2% sodium citrate, invert the tube 5 to 6 times, and promptly separate plasma.							
3. <sup>2</sup> %クエン	(1.8mL vacuum blood sampling tube)	von Willebrand factor antigen assay		plasma 0.2		Be sure to freeze the plasma sample for storage.  (When submitting ≥1.8 mL of blood							
<u>(PC2) N</u> 元 名 施設	Additives: 3.2% sodium	von Willebrand factor activity (ristocetin cofactor)		plasma		with multiple test requests, use the PC5 container.)							
月 新法 蜜	0.2 mL Storage	Storage	0.2 mL Storage	0.2 mL Storage	0.2 mL Storage	0.2 mL Storage	0.2 mL Storage	0.2 mL vo	von Willebrand factor multimer analysis	whole blood 1.8 each	o.5 each	F	
.55.R1	Room temperature	ADAMTS13 activity	cuon	Immediately plasma 0.3									
	Self-life: 1 year	ADAMTS13 inhibitor		plasma 0.6									
	(1 month after opening the plastic case	Protein C (antigen level)		plasma 0.3									
	that contains 25 tubes)	Protein C activity		plasma 0.4									
		Protein S (antigen level)		plasma 0.2									
		Protein S activity		plasma 0.4									
		Protein S (free antigen level)		plasma 0.2									
		HIT antibody (Platelet factor 4-heparin complex antibody)		Immediately plasma 0.5		Draw 1.8 mL of blood into a tube containing 0.2 mL of 3.2% sodium citrate, invert the tube 5 to 6 times, and promptly separate plasma.  Be sure to freeze the plasma sample for storage.							
		C1 inactivator activity (C1 esterase inhibitor activity)		Immediately plasma 0.2		Draw 1.8 mL of blood into a tube containing 0.2 mL of 3.2% sodium citrate, invert the tube 5 to 6 times, and promptly separate plasma. Be sure to freeze the plasma sample for storage. (When submitting ≥1.8 mL of blood with multiple test requests, use the PC5 container.)							

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PC5 Previous container symbol	Containing 3.2% sodium citrate (4.5mL vacuum blood sampling	Light Shielding Vitamin K fractionation		Immediately plasma 2.0		Draw 4.5 mL of blood into a tube containing 0.5 mL of 3.2% sodium citrate, invert the tube 5 to 6 times, and promptly separate plasma. Be sure to use the "light-shielding polyethylene test tube (ASS)" when submitting plasma samples. Be sure to freeze the plasma sample for storage.
	tube) Additives: 3.2% sodium	Coagulation VIII		plasma 1.0		Draw 4.5 mL of blood into a tube containing 0.5 mL of 3.2% sodium citrate, invert the tube 5 to 6 times,
3.2% <b>少工</b> 》 探血 <b>眼 4.</b> <sup>E</sup> m (PC <b>5</b> ) [[ 元 名 應题	citrate identification Factor 0.5 mL identification whole	blood	each		and promptly separate plasma.  Be sure to freeze the plasma sample for storage.	
· · · · · · · · · · · · · · · · · · ·	Storage conditions: Room temperature  Self-life: 1 year (1 month after opening the plastic case that contains 25 tubes)	Lupus- anticoagulant	4.5 each	Immediately plasma Refrigerated 1.0	F	Centrifuge at $\geq$ 1500 G for 15 minutes at room temperature immediately after blood is drawn, take plasma at the position of $\geq$ 5 mm above the buffy coat, and submit it under frozen conditions. Handle the samples with care to avoid platelet contamination which may affect the results. *Equation of the rotating speed of the centrifuge G=1.118 $\times$ 10 <sup>-5</sup> $\times$ r $\times$ n² r: radius of the centrifuge rotor (cm) n: number of revolutions per minute (rpm)
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PE2 Previous container symbol T3	(2mL vacuum blood sampling tube) Additives: Novo-heparin 15 IU	Endotoxin, quantitative		le blood	0	After drawing blood into a container shown in the left image, mix well. Promptly refrigerate the specimen. The data will be affected if it is kept at room temperature. Avoid putting in another request at the same time, except for $\beta$ -D-glucan.
	Storage conditions: Room temperature Self-life: 1 year	β-D-glucan		) each	K	After drawing blood into a container shown in the left image, mix well. Promptly refrigerate the specimen. Avoid putting in another request at the same time, except for Endotoxin quantitative.



CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATU	SAMPLE HANDLING METHOD							
PH5 Previous container symbol		γ-aminobutyric acid (GABA)	whole blood 3.0	Immediately plasma 1.0		After drawing blood into a container shown in the left image, mix well, and separate plasma immediately. Be sure to freeze the plasma sample for storage.							
						Fatty acid fractionation (24)	whole blood	plasma		Draw blood into a container shown in the left image under fasted conditions in the early morning, mix well, and			
			Fatty acid fractionation (4)	1.5-2.0 each	0.5 each	F	separate plasma. Be sure to freeze the plasma sample for storage.						
		Very long chain fatty acid	whole blood 4.5-5.0	plasma 2.0		After drawing blood into a container shown in the left image, mix well, and separate plasma. Freeze the plasma samples for storage.							
		Lipoprotein lipase (LPL)	whole blood 1.5-2.0	Immediately plasma Refrigerated 0.3		Provide a patient with 30 units of heparin per kilogram of body weight intravenously under fasted conditions in the early morning. 15 minutes later, draw blood into a container shown in the left image, and centrifuge the blood at low temperature (4°C).  Be sure to freeze the plasma sample for storage.							
h	Containing heparin (5mL vacuum	Nicotinic acid (niacin)		le blood heparin) 1.5									
ヘパリン	blood sampling tube)  Additives: Heparin sodium 65IU  Storage conditions: Room	Lead (Pb)		le blood heparin) 3.0									
深血量 <b>5mL</b> (PH <b>5</b> ) <b>6</b> E 名 <b>施</b> 数		Chromium	whole blood (with heparin) 0.7		R	After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen.							
月 在		conditions: Room	conditions: Room	conditions: Room	conditions: Room	conditions: Room	conditions:	conditions: Room	conditions: Room	Cadmium		le blood heparin) 0.5	
S IRL	Self-life: 2 years	Manganese		le blood heparin) 0.7									
		Ethanol		le blood heparin) 1.0	F	After drawing blood into a container shown in the left image, mix well. Transfer the blood into a polyethylene test tube, and freeze the specimen.							
		Voriconazole		plasma 0.3									
		Carbamazepine											
		Ethosuximide	whole	plasma		After drawing blood into a container							
		Phenobarbital	blood 1.5-2.0 each	0.5 each	R	shown in the left image, mix well, and separate plasma. Refrigerate the plasma samples.							
		Phenytoin											
		Primidone		plasma 0.3									
		Valproate		plasma 0.5									

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PH5 Previous container symbol		Gabapentin				
G		Lamotrigine				
		Topiramate				
		Levetiracetam				
		Stiripentol	whole blood 1.5-2.0 each			
		Perampanel				
		Lacosamide				
0	Containing heparin (5mL vacuum blood sampling tube)  Additives: Heparin sodium 65IU  Storage conditions: Room temperature  Self-life: 2 years	Amiodarone				
		Bepridil				
ヘパリン <sub>晃血量</sub> 5mL		Aprindine			R	After drawing blood into a container shown in the left image, mix well, and
<ul><li>(PHD) (G)</li><li>(E) (G) (Max (Max (Max (Max (Max (Max (Max (Max</li></ul>		Disopyramide			K	separate plasma. Refrigerate the plasma samples.
. 月 E		Procainamide		plasma 0.4		
STIRL		Propranolol				
		Pilsicainide		plasma 0.3 each		
		Cibenzoline				
		Pirmenol	whole blood 3.0-4.0	plasma 1.3		
		Quinidine		plasma 0.4		
		Flecainide	whole blood 1.5-2.0 each	plasma 0.3	-	
		Theophylline		plasma		
		Methotrexate		0.5 each		

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD	
PH5 Previous container symbol		CCR4 protein, FCM		blood		After drawing blood into a container shown in the left image, mix well, and store at room temperature. Please submit a sample on the day it is collected.	
G		Tuberculosis specific IFN- y		eparin) each	R	After drawing blood into a container shown in the left image, mix well, and store at room temperature (18-25°C). Please submit a sample on the day it is collected.	
		Presepsin	whole blood 1.5-2.0	plasma 0.4 Immediately	F	After drawing blood into a container shown in the left image, gently invert the tube 2 to 3 times, and separate plasma immediately.  Be sure to freeze the plasma sample for storage. Avoid excessive mix by a vortex mixer or others, mild stirring for a long time, or freeze-thawing method that may cause the elevated values. Avoid putting in another request at the same time.	
		CD34, quantitative	(with h	blood eparin) .0		After drawing blood into a container shown in the left image, mix well, and store at room temperature. Freeze the sample containing DMSO.  Avoid putting in another request at the same time. Please submit a sample on the day it is collected.	
		Erythrocyte surface marker analysis CD55	whole blood (with heparin)				
		Erythrocyte surface marker analysis CD59		each		After drawing blood into a container shown in the left image, mix well, and	
	Containing heparin (5mL vacuum blood sampling tube)  Additives: Heparin sodium 65IU	Leukemia/lymphoma analysis (LLA), CD45 gating, test for hematopoietic malignant tumor cells	whole blood (with heparin) 5.0 each			store at room temperature. Please submit a sample on the day it is collected.	
		Malignant lymphoma analysis (MLA), CD45 gating, test for hematopoietic malignant tumor cells					
ヘノヤリン 東血量 5 mL ②円⑤ © E 名 施設者		T cell percentage B cell percentage	(with h	blood eparin) .0		After drawing blood into a container shown in the left image, mix well, and store at room temperature (17-25°C) Draw a larger amount of blood from patients with low levels of lymphocytes.  Please submit a sample on the day it is collected.	
	Storage conditions: Room	IgG	whole blood			After drawing blood into a container shown in the left image, mix well, and	
月 日 法	temperature Self-life: 2 years	B-cell surface IgM				store at room temperature (17–25°C). Draw a larger amount of blood from	
15.81		(Sm-lg) IgD		eparin) each	R	patients with low levels of lymphocytes. (3.0 mL when requesting ≥3 test items Please submit a sample on the day it is collected.	
		K					
		Lymphocyte surface marker automated analysis by monoclonal antibodies Lymphocyte	(with h	blood eparin) each		After drawing blood into a container shown in the left image, mix well, and store at room temperature. (Collect 5.0 mL of blood when requesting at least 10 items.)	
		surface marker analysis by two- color analysis	3.0	cacii		Please submit a sample on the day it is collected.	
		IgG-FcR <sup>+</sup> /T-cell percentage	(with h	blood eparin) .0		After drawing blood into a container shown in the left image, mix well, and store at room temperature (17-25°C). Draw a larger amount of blood from patients with low levels of lymphocytes. Please submit a sample on the day it is collected.	
		Platelet surface marker analysis CD41		blood eparin)		After drawing blood into a container	
		Platelet surface marker analysis CD42b	5.0	each		shown in the left image, mix well, and store at room temperature. Please submit a sample on the day it	
		Th1/Th2 (IFN-γ×IL-4/CD4)	(with h	blood eparin) .0		is collected.	

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD		
Previous container symbol		Cytomegalovirus- specific CTL assay (HLA-A*0201)	whole blood (with heparin)	R	After drawing blood into a container shown in the left image, mix well, and store at room temperature.		
		Cytomegalovirus- specific CTL assay (HLA-A*2402)	5.0 each		Please submit a sample on the day it is collected.		
				G-Banding			
			Congenital chromosomal anomalies Q-Banding				
		High-resolution banding					
		Chromosome analysis using spectral karyotyping (SKY) (Congenital anomaly)					
_		Fragile X chromosome (Fragile X syndrome)					
0	Containing heparin	Chromosome 1 (1p36 deletion syndrome)					
	(5mL vacuum blood sampling tube)	Chromosome 4 (Wolf-Hirschhorn syndrome)					
ヘパリン <sub>発血量</sub> <b>5</b> ml PH <b>5 G</b>	Additives: Heparin	Chromosome 5 (Sotos syndrome)					
5. 名 <b>施</b> 默 6	sodium 65IU	Chromosome 7 (Williams syndrome)			After drawing blood into a container		
月 日	Storage conditions: Room	Congenital chromosomal anomaly, Chromosome 13	whole blood (with heparin) 3.0 each	R	shown in the left image, mix well, and refrigerate the specimen. Please submit a sample on the day it		
STARL	temperature Self-life:	Chromosome 13 (Congenital retinoblastoma, RB1)			is collected.		
	2 years	Chromosome 15 (Prader-Willi syndrome)					
		Chromosome 15 (Angelman syndrome)					
		Chromosome 17 (Miller-Dieker syndrome)					
		Congenital chromosomal anomaly, Chromosome 18					
		Congenital chromosomal anomaly, Chromosome 21					
		Chromosome 22 (22q11 deletion) (CATCH22) Conotruncal anomaly face syndrome Velo-cardio-facial syndrome DiGeorge syndrome					
		Congenital chromosomal anomalies Chromosome X					
		Chromosome X (Steroid sulfatase [STS] gene)					

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED   (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PH5 Previous container symbol		Congenital chromosomal anomalies Chromosome Y			
G		Chromosome Y (Sex-determining region Y [SRY])	whole blood (with heparin) 3.0 each		
		Chromosomes XY (Short stature homeobox [SHOX])			
		Chromosome anomaly associated with hematological disorders, G-Banding			
		Chromosome analysis using spectral karyotyping (SKY) (Hematological disorder)			
	Containing	TCF3-PBX1 t(1;19) translocation			
	heparin (5mL vacuum blood sampling	CKS1B 1q21 amplification			
	tube) Additives:	ALK 2p23 translocation			After drawing blood into a container
ヘパリン 東血電 <b>5m</b> L (PHS) (G 正 名   施級を	Heparin sodium 65IU Storage	GATA2- MECOM inv(3) inversion, t(3;3) translocation			shown in the left image, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.
月	conditions: Room temperature	BCL6 3q27 translocation	whole blood (with heparin)		
形法 室屋 15.RL	Self-life: 2 years	IGH-FGFR3 t(4;14) translocation	5.0 each		
	2 years	FIP1L1-PDGFRA 4q deletion (4q12 deletion)			
		CSF1R 5q deletion			
		EGR1 5q deletion			
		PDGFRB 5q32 translocation			
		D7S486 7q deletion/ Chromosome 7 monosomy			
		Chromosome anomaly associated with hematological disorders, Chromosome 8			

CONTAIN	NER FORM	TEST NAME	AMOUNT COLLECTED AMOUNT SUBMITTEE (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD
PH5 Previous container symbol		MYC 8q24 translocation			
G		IGH-MYC t(8;14) translocation			After drawing blood into a container
		RUNX1-RUNX1T1 (AML1-MTG8) t(8;21) translocation	G8)		shown in the left image, mix well, and refrigerate the specimen. Please submit a sample on the day it
		FGFR1 8p11.2 translocation			is collected.
		BCR-ABL1 t(9;22) translocation			
		Peripheral blood neutrophils BCR-ABL1 t(9;22) translocation			After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Submit the specimens promptly after blood sampling. If more than 30 hours has passed from sample collection, the sample cannot be used for the test due to cellular morphological changes which may affect the test result.
		KMT2A (MLL) 11q23.3 translocation			
0	Containing heparin (5mL vacuum blood sampling	IGH-CCND1 (IGH-BCL1) t(11;14) translocation			
	tube) Additives:	NUP98 11p15 translocation	whole blood (with heparin) 5.0 each		
ヘパリン 乗血量 5mL (PH5) (G E 名 施設を	Heparin sodium 65IU	BIRC3-MALT1 (API2- MALT1) t(11;18) translocation		R	
2	Storage conditions:	ATM 11q deletion			
法 蜜湯	temperature Self-life: 2 years	Chromosome anomaly associated with hematological disorders, Chromosome 12			After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Please submit a sample on the day it is collected.
		ETV6-RUNX1 (TEL- AML1) t(12;21) translocation			
		D13S319 13q deletion			
		IGH-BCL2 t(14;18) translocation			
		IGH-MAF t(14;16) translocation			
		PML-RARA t(15;17) translocation			
		CBFB inv(16) inversion, t(16;16) translocation			
		TP53 17p deletion			
		BCL2 18q21 translocation			

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD
PH5		20q deletion			
Previous container symbol		Chromosome anomaly associated with hematological disorders, Chromosome X	whole blood (with heparin) 5.0 each		After drawing blood into a container shown in the left image, mix well, and
	Containing heparin	Chromosome anomaly associated with hematological disorders, Chromosome Y			refrigerate the specimen. Please submit a sample on the day it is collected.
	(5mL vacuum blood sampling tube)	Sex-mismatched bone marrow transplantation (BMT) (Chromosomes XY)		R	
- ハベリン 多血服 5ml (PH3) (G E 名	Additives: Heparin sodium 65IU  Storage conditions: Room temperature  Self-life: 2 years	FLT3 mutational analysis ITD/ TKD	whole blood (with heparin) 3.0		After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Avoid putting in another request at the same time. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
		DNA index	peripheral blood (with heparin) 10.0 each	R	Use 2 tubes shown in the left image. Please submit a sample on the day it is collected.
		DNA histogram			

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED   (mL)	* SAMPLE H	HANDLING METHOD
PH9 Previous container symbol	transformation by PHA  Lymphocyte blastoid transformation whole blood (with heparin) 5.0 each transformation		shown in the store at room Draw a larger from patients lymphocytes. (8.0 mL when items at the s	requesting the 2 test	
TOTAL STATE OF THE	Containing heparin (10mL vacuum blood sampling tube)  Additives: Heparin sodium 130IU  Storage conditions: Room temperature  Self-life: 2 years	Drug-induced lymphocyte stimulation test (DLST)	1 drug whole blood (with heparin) 12.0	the designate and be sure to temperature.  1. Each addition of blood.  2. One drug rymphocyte may not be insufficient.  3. As a guide, blood colle count is \$\leq\$ 3 our sales in leukocyte of lymphous.  4. When you reduce more items.  5. Please substogether we like to test capsules (of the compens of the compens of the compens of the compens of the test with the te	equires 5 million es. In some cases, tests conducted due to lymphocytes. double the amount of cted when the leukocyte 3000 mm³. Please contact charge if you have the count and the percentage eytes in detail. clace an order for 2 or please specify priority. mit a blood sample ith a drug you would Tablets (one tablet), one capsule), powders t of approx. one dose), internal medicines 5 mL), injection (one vial [ampule]). be able to conduct th an ampule for an all reaction test as it trace quantity. If you other drugs, please r sales in charge. s suspected to be a e agent, please collect e dedicated container
		Mixed lymphocyte culture (MLC)	whole blood (with heparin) (Recipient) 20.0 (donor) 10.0 (unrelated donor) 10.0	recipient, 10.0 a donor, and blood from ar container sho well, and stor Do not open t samples. MLC lymphocytes conditions. Fill name of in name on the coraw a larger	(×2) of blood from a 0 mL (×1) of blood from blood 10.0 mL (×1) of a unrelated donor into a own in the left image, mix re at room temperature. The container or transfer container or transfer cultured in sterile enstitution and subject container label. It amount of blood is with low levels of

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED   (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PHS Previous container symbol	Containing heparin (4mL vacuum blood sampling tube)	Light Shielding Coproporphyrin			
(E) (A)	Additives: Heparin sodium 83.6 units	(Light Shielding) Uroporphyrin	whole blood (with heparin) 1.5 each		After drawing blood into a light-shielding container shown in the left image, mix well, and refrigerate
(予) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Storage conditions: Room temperature	Light Shielding Protoporphyrin		R	the specimen. Be sure to use the light-shielding container.
I A I I I I I I I I I I I I I I I I I I	Self-life: 18 months (1 month after opening the aluminum package)	Light Shielding Free erythrocyte protoporphyrin	whole blood (with heparin) 1.0		
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED   (mL)	STORE Temperature	SAMPLE HANDLING METHOD
PK2 Previous container symbol  g  2K  \$\frac{2}{2}\text{Minimizer}  (PK2) B  \$\frac{2}{2}\text{Minimizer}  (PK2) B  \$\frac{2}{2}\text{Minimizer}  (PK3) B  \$\frac{2}{2}\text{Minimizer}  (PK3) B	Containing EDTA-2K (2mL vacuum blood sampling tube)  Additives: EDTA-2K (3.8 mg  Storage conditions: Room temperature  Reticulocyte  Peripheral blood general test  whole blood (with EDTA-2K) 2.0 each	(with EDTA-2K)	R	After drawing blood into a container shown in the left image. Immediately after collecting, gently mix the blood by inverting the tube ≥ 5 times, and refrigerate the specimen. We cannot test hemolytic, coagulated, or frozen samples. Please submit a sample on the day it is collected.	
月 EDTA-ZX 赞法 第法					
	Self-life: 2 years	Eosinophil granulocyte count			
		NCC Oncopanel System			Collect blood sample in the dedicated container, mix well, and refrigerate the specimen. After the specimen collection, please submit it within 14 days.

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PK5 PK7 For 5mL (PK5) For 7mL (PK7)	Containing EDTA-2K (5mL or 7mL vacuum blood sampling tube)  Contents: EDTA-2K 9.5 mg or 13.3 mg  Storage conditions: Room temperature  Self-life: 2 years	EGFR mutation analysis v2.0 (plasma)	whole blood 10.0- 14.0	plasma 5.0	R	Draw a sufficient volume of blood to obtain the required specimen (5mL of plasma) into a tube shown in the left image. After blood sampling, make sure to separate plasma within 4 hours.  Immediately after the separation, pipette 2.5 mL each of plasma into 2 sterile polyethylene test tubes (ARR) and store them frozen.  Decanting is not permitted when obtaining the plasma aliquots to avoid contamination with leukocyte-derived genomic DNA.  Avoid putting in another request at the same time. In this method, the result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PKF Previous container symbol	Containing	Vitamin B <sub>1</sub>		hole blood		After drawing blood into a container shown in the left image, mix well, and freeze the specimen.
	EDTA-2K (2mL vacuum blood sampling tube)	Light Shielding Vitamin B <sub>2</sub>		(with EDTA-2K) 0.5 each		Draw blood into the designated container, and mix well. Transfer the blood into a light-shielding polyethylene test tube (ASS), submit the specimen under frozen conditions.
国の政権を決し、 第四 氏名 ② クラスロー・ マー マー マー マー マー マー マー マー マー マー	Additives: EDTA-2K 3.6 mg	Cyclosporine	whole blood		F	
1 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	conditions: Room temperature Self-life:	Tacrolimus		EDTA-2K) 7 each		After drawing blood into a container shown in the left image, mix well, and freeze the blood. Please note that this cannot be requested
	1 year	Everolimus		le blood EDTA-2K) 1.0		simultaneously with other test items.

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PN2 PN5 Previous container symbol		Pancreatic phospholipase A <sub>2</sub> (pancreatic PLA <sub>2</sub> )		plasma 0.3		After drawing blood into a container shown in the left image, mix well, and separate plasma. Be sure to freeze the plasma sample for storage.
C		Amino acid analysis, 39 types, LC/MS		Immediately plasma 0.5	F	Promptly after drawing blood into
		Amino acid analysis, 9 types, LC/MS				a container shown in the left image, mix well, and separate plasma at low temperature (4°C).
		Amino acid analysis, 2 types (tyrosine/ phenylalanine), LC/MS		each		Be sure to freeze the plasma sample for storage.
2Na		Homocystein, total		plasma		
東血量 2mL (PN2) [G] 5.名   施設を		Rufinamide	whole blood	0.3 each	R	After drawing blood into a container shown in the left image, mix well, and
1		Mycophenolic acid	1.5-2.0 each	plasma 0.5	K	separate plasma. Refrigerate the plasma samples.
ETA-2Na 防法 室道 ITAL	Containing EDTA-2Na	Imatinib		plasma 0.3		
For 2 mL (PN2)	(2 or 5mL vacuum blood sampling tube)  Additives: EDTA-2Na 3.0 or 7.5 mg  Storage conditions: Room temperature	Adrenocorticotropic hormone (ACTH)		Refrigerated plasma 0.5		Draw blood into a container shown in the left image in resting conditions in the early morning, mix well, and separate plasma at low temperature (4°C). Be sure to freeze the plasma sample for storage.
		Parathyroid hormone (whole PTH)		plasma 0.5 each		After drawing blood into a container shown in the left image, mix well, and separate plasma. Be sure to freeze the plasma sample for storage.
		Cortisol				Draw blood into a container shown in the left image in resting conditions in
	Self-life: 2 years	Aldosterone				the early morning, mix well, and separate plasma. Freeze the plasma samples for storage
2Na		Aldosterone/ Renin activity	whole blood	Refrigerated plasma 0.8		Draw blood into a container shown in the left image in resting conditions in
現血量 5mL (PN5) (C) 5 名 (施設)		Aldosterone/ Renin quantitative	2.0-3.0 each	Refrigerated plasma 1.0		the early morning, mix well, and separate plasma. Freeze the plasma samples for storage.
月 EDTA-2Ng		Serotonin		le blood EDTA-2Na) 1.0		After drawing blood into a container shown in the left image, mix well. Transfer the blood into a polyethylene test tube, and freeze the specimen.
7法 盛览 1572		Plasma renin activity (PRA)		Refrigerated plasma 0.3		
For 5 mL (PN5)		Renin quantitative, activity	whole	Refrigerated plasma 0.5		After drawing blood into a container shown in the left image, mix well, and
		Angiotensin I	blood 1.5-2.0 each	Refrigerated plasma 0.2		shown in the left image, mix well, and separate plasma at low temperature $(4^{\circ}C)$ . Be sure to freeze the plasma sample for storage.
		Angiotensin II		Refrigerated plasma		
		Cyclic AMP		0.3 each		

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD												
PN2 PN5 Previous container symbol		Human brain natriuretic peptide (BNP)	whole	Immediately plasma 0.5	F	Drawing blood into a container shown in the left image in resting conditions, and mix well. Separate plasma within 6 hours in refrigerated conditions. Promptly freeze the plasma for storage.												
C		PIVKA-II	blood 1.5-2.0 each	plasma 0.5	R	After drawing blood into a container shown in the left image, mix well, and separate plasma. Refrigerate the plasma samples.												
		Pro-gastrin-releasing peptide (ProGRP)		plasma 0.4		After drawing blood into a container												
2Na <u>第面</u> 2mL <u>PN2</u> C 3 8 1 施服8		Epstein-Barr virus nucleic acid quantitative	whole blood 3.0-5.0	plasma 0.8	F	shown in the left image, mix well, and separate plasma. Be sure to freeze the plasma sample for storage.												
Beach		ABO/Rh blood group (D factor)		le blood EDTA-2Na)		After drawing blood into a container shown in the left image, mix well, and												
月 E EDTA-2Ne 竞选 登建		Blood group Rh-Hr type		D each	R	refrigerate the specimen.												
For 2 mL	Containing EDTA-2Na		whole blood 10.0-12.0 (in a			Draw 2.0 mL of blood into a container shown in the left image, mix well, and promptly submit the specimen under room temperature conditions.												
(PN2)	(2 or 5mL vacuum blood sampling tube)  Additives: EDTA-2Na 3.0 or 7.5 mg  Storage conditions: Room temperature	(2 or 5mL vacuum blood sampling tube) Additives: EDTA-2Na 3.0 or 7.5 mg Storage conditions: Room	Blood type incompatibility	separate container) and whole blood 2.0	whole blood (with EDTA-2Na) 2.0	Also, draw 10.0 to in a separate conta separate serum, an specimen. Avoid putting in ar	Also, draw 10.0 to 12.0 mL of blood in a separate container, promptly separate serum, and refrigerate the											
			3.0 or 7.5 mg Storage conditions: Room	3.0 or 7.5 mg Storage conditions: Room	Storage conditions: Room	Storage conditions: Room	Storage conditions: Room	Storage conditions: Room	Storage conditions: Room	Storage conditions: Room	Storage conditions: Room	Direct coombs test		le blood EDTA-2Na) 1.0	R	After drawing blood into a container shown in the left image, mix well, and promptly submit the specimen in room temperature conditions.  Avoid putting in another request at the same time.		
	Self-life: 2 years	Irregular antibody (Antibody	whole blood 10.0-15.0 (in a separate	serum 5.0 and	R	Draw 2.0 mL of blood into a container shown in the left image, mix well, and promptly submit the specimen under room temperature conditions. Also, draw 10.0 to 15.0 mL of blood in												
月 EDTA-2Na 作法 要答							identification/ antibody titer measurement)	container) and whole blood 2.0	whole blood (with EDTA-2Na) 2.0	R	a separate container, promptly separate serum, and refrigerate the specimen. Avoid putting in another request at the same time.							
For 5 mL (PN5)														Pentraxin 3 (PTX3)	whole blood 1.5-2.0	Immediately plasma Refrigerated 0.3		Promptly after drawing blood into a container shown in the left image, mix well, and separate plasma at low temperature (4 $^{\circ}$ C). Be sure to freeze the plasma sample for storage.
			Interleukin-8 (IL-8)	each	plasma 0.5	F	After drawing blood into a container shown in the left image, mix well, and separate plasma. Be sure to freeze the plasma sample for storage.											
		Transforming growth factor β1 (TGF-β1)	whole blood 3.0-5.0	Immediately plasma Refrigereted 0.5		Put the blood sample in an ice-chilled container immediately, After ice cooling for 10 to 60 minutes, separate plasma by refrigerated centrifuge (at 1000 G for 30 minutes at $4^{\circ}\text{C}$ ). Avoid putting in another request at the same time.												

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED AM	MOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PN2 PN5		FLT3/ITD mutation analysis				
Previous container symbol		NPM1 mutational analysis				
		RET gene mutation analysis, Medullary carcinoma of the thyroid			After drawing blood into a container shown in the left image, mix well, and	
		Single site analysis for RET				refrigerate the specimen. Avoid putting in another request at the same time.
2Na 東血量2mL (PN2) [C] 第 名   施設を		Y chromosome microdeletion (AZF region)				In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and
月 但 DTA-2Na 物法 蜜道	Containing EDTA-2Na	Drug metabolizing enzyme cytochrome P450 CYP2C19 gene polymorphism analysis	whole blood (with EDTA-2Na)			handling samples.
For 2 mL	(2 or 5mL vacuum blood sampling tube)	UGT1A1 gene polymorphism analysis			0	
(PN2)	Additives: EDTA-2Na 3.0 or 7.5 mg	NUDT15 gene codon 139 polymorphism analysis		R		
	Storage conditions: Room temperature Self-life: 2 years					
0		HLA-A, DNA typing				After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen.
		HLA-B, DNA typing				When requesting at least 2 HLA test items, the sufficient amount for blood test is 2.0 mL.
2Na 疾血量5mL (PN5) (C) 5 名 施級		HLA-C, DNA typing				Still, recipients may have a decreased number of cells after chemotherapy or other treatments, which may make
1.		HLA-DR, serological typing				it difficult to recover DNA; therefore, make sure to submit at least 2×10 <sup>6</sup> cells. Recipients with WBC count
月 B EDTA-2Na 防法 實際		HLA-DRB1, DNA typing				below 1000/µL need to provide at least two 2.0mL sampling tubes (Container PN2) or one 5.0mL
For 5 mL		HLA-DPB1, DNA typing				sampling tube (Container PN5). In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
(PN5)		HLA-DQA1, DNA typing				
		HLA-DQB1, DNA typing				
		Complement factor (C2)	whole blood 2.0-3.0	plasma 1.0	F	After drawing blood into a container shown in the left image, mix well, and separate plasma. Be sure to freeze the plasma in a polyethylene test tube for storage.

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED (mL) (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD			
PN5 Previous container symbol					Herpes Simplex virus DNA, qualitative	whole blood (with EDTA-2Na)	R	After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Avoid putting in another request at the same time. In this method, the result is affected
		Varicella-zoster virus DNA, qualitative	2.0 each		proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.			
		Cytomegalovirus pp65 antigen (C7-HRP)	whole blood (with EDTA-2Na) 3.0	R	After drawing blood into a container shown in the left image, mix well, and store at room temperature. Submit the specimens promptly after blood sampling.  If blood within 24 hours after collection is not used, the detection rate will decrease.			
		Cytomegalovirus DNA, qualitative						
	Containing EDTA-2Na (5mL vacuum blood sampling tube)  Additives: EDTA-2Na 7.5 mg  Storage conditions: Room temperature  Self-life: 2 years	Epstein-Barr virus nucleic acid quantitative		sh re A th	After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Avoid putting in another request at the same time.			
		Human herpesvirus, type 6 DNA, qualitative	whole blood (with EDTA-2Na)					
2Na 班面置5mL (PN5) [C E 名 施經		Human herpesvirus, type 7 DNA, qualitative	2.0 each		In this method, the result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.			
DTA-2Nb 防法 第3		Measles virus RNA, qualitative						
DE IPR		Mumps virus RNA, qualitative						
		High sensitivity PNH testing		R	Be sure to collect the specimen into a container shown in the left image, and submit it in refrigerated conditions. Avoid putting in another request at the same time.			
		JAK2V617F mutational analysis			After drawing blood into a container shown in the left image, mix well, and			
		MPN gene mutational analysis	whole blood					
		Congenital long QT syndrome gene analysis	(with EDTA-2Na) 5.0 each		refrigerate the specimen. Avoid putting in another request at the same time. In this method, a result is affected			
		HTT gene CAG repeat sequence			proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.			
		Androgen receptor gene CAG repeat sequence						
		IL28B SNPs analysis						

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD			
PN5 Previous container symbol	Containing EDTA-2Na (5mL vacuum blood sampling tube)  Additives: EDTA-2Na 7.5 mg  Storage conditions: Room temperature  Self-life: 2 years				Male AIRS (8 types)		, <u>,</u>		<ol> <li>Collect approximately 5mL of blood in an EDTA-2Na-containing tube (left image).</li> <li>Immediately after collecting, gently mix the blood by inverting the tube</li> </ol>
		Female AIRS (9 types)	whole blood 3.0-5.0 each	Immediately plasma Refrigerated 0.5	F	2 to 3 times (do not use a roller for mixing).  3. Immediately after mixing (within 1 minute after mixing), cool the tube by immersing in ice water (so that the tube is immersed in an ice bath up to the level of the surface of blood) (≥15 minutes, until ready for centrifuge).			
		AICS for males (5 types)		each		<ol> <li>Within 8 hours of blood sampling, centrifuge the sample under refrigerated conditions (4°C, 3000 rpm, 15 minutes) or under normal conditions (3000 rpm, 15 minutes, no temperature rise of the rotor).</li> <li>Immediately after the centrifugation, collect the</li> </ol>			
2 Na Smit 5mL Pho C E S Mar Smit Smit Smit Smit Smit Smit Smit Smit		AICS for females (6 types)				supernatant plasma from the center of it without touching the interface with the blood, and dispense it.  6. Within 4 hours of dispensing, freeze the plasma samples for storage.			
		LHON mt DNA Evaluation				After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Avoid putting in another request at the same time.			
			MELAS mt DNA Evaluation	whole blood (with EDTA-2Na)					
		MERRF mt DNA Evaluation	8	.0×2		In this method, the result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.			
		NARP mt DNA Evaluation							

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PN7 Previous container symbol		Antidiuretic hormone (AVP)  Catecholamine 3 fractionation A: adrenaline NA: noradrenaline DA: dopamine  L-dopa  Dopamine, total		Immediately plasma Refrigerated 1.5 each		Promptly after drawing blood into a container shown in the left image, mix well, and separate plasma at low temperature (4°C). Be sure to freeze the plasma sample for storage.
		HVA	whole	plasma		After drawing blood into a container shown in the left image, mix well, and
		VMA	blood 4.0-5.0 each	1.5 each	F	separate plasma. Be sure to freeze the plasma sample for storage.
	Containing EDTA-2Na (7mL vacuum blood sampling tube)  Additives: EDTA-2Na 10.5 mg  Storage conditions: Room temperature  Self-life: 2 years	Serotonin		Immediately plasma Refrigerated 1.5	-	Promptly after drawing blood into a container shown in the left image, mix well, and separate plasma at low temperature (4°C) at 900 rpm for 20 minutes (PRP) or at 1500 rpm for 10 minutes (P).  Be sure to freeze the plasma for storage.
2 Na 東血瞳 7 mL (PND) (A) 第 名   施設		5-Hydroxyindoleacetic Acid (5-HIAA)		plasma 1.5 each		After drawing blood into a container shown in the left image, mix well, and separate plasma.  Be sure to freeze the plasma sample for storage.
, ,		3-Methoxy-4- Hydroxyphenylglycol (MHPG)				
50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		Herpes simplex virus DNA, quantitative				After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Avoid putting in another request at the same time. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
		Cytomegalovirus pp65 antigen (C10, C11)	(with E	le blood EDTA-2Na) 0 each	R	After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Submit the specimens promptly after blood sampling.  If blood within 24 hours after collection is not used, the detection rate will decrease.
		Cytomegalovirus DNA quantitative				After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen.  Avoid putting in another request at the same time.
		Epstein-Barr virus nucleic acid quantitative (WBC)				In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
		Epstein-Barr virus DNA (Clonality)		le blood EDTA-2Na) 7.0		After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen.

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PN7 Previous container symbol		HTLV-1 nucleic acid detection (pregnant woman), qualitative	(mL)   (mL)		After drawing blood into a container shown in the left image, mix well, and submit the specimen in refrigerated conditions. In this method, a result is affected
		HTLV-1 Provirus DNA qualitative			proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
		HTLV-I (ATLV) Provirus DNA (Clonality)			After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen.
		KIT sequence analysis (leukemia)			
		Screening of chimeric genes related to leukemia, quantitative			
		WT1 mRNA quantitative			
0		Major BCR-ABL1 mRNA (IS)			
	Containing EDTA-2Na (7mL vacuum	-2Na MAJOR BUR-ABLI			
2Na 與血量7mL	blood sampling tube)	Mutation analysis in the ABL1 region, Major BCR-ABL1			
FN7 (A) 5 名 (施設)	Additives: EDTA-2Na 10.5 mg	minor BCR-ABL1 mRNA,quantitative	whole blood (with EDTA-2Na)		
A E EDIA-2NB	Storage conditions:	minor BCR-ABL1 mRNA, qualitative	7.0 each		After drawing blood into a container shown in the left image, mix well, and
55.	Room temperature	Mutation analysis in the ABL1 region, minor BCR-ABL1			refrigerate the specimen. Please submit a sample on the day it is collected. Avoid putting in another request at the same time. In this method, a result is affected
	Self-life: 2 years	TCF3-PBX1 mRNA, quantitative			
		TCF3-PBX1 mRNA, qualitative			proportionally to the degree of contamination. Therefore, pay careful attention when collecting and
		PML-RARA mRNA, quantitative			handling samples.
		PML-RARA mRNA, qualitative			
		CBFB-MYH11 mRNA, quantitative			
		CBFB-MYH11 mRNA, qualitative			
		RUNX1-RUNX1T1 mRNA, quantitative			
		RUNX1-RUNX1T1 mRNA, qualitative			
		RUNX1-MECOM mRNA, qualitative			
		ETV6-RUNX1 mRNA, quantitative			

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PN7		ETV6-RUNX1 mRNA, qualitative	(5)	(IIIE)		
Previous container symbol		KMT2A-AFF1 mRNA, quantitative				
		KMT2A-AFF1 mRNA, qualitative				
		KMT2A-AFDN mRNA, quantitative				
		KMT2A-AFDN mRNA, qualitative				After drawing blood into a container shown in the left image, mix well, and
		KMT2A-MLLT3 mRNA, qualitative				refrigerate the specimen. Please submit a sample on the day it is collected.
		KMT2A-MLLT3 mRNA, quantitative				Avoid putting in another request at the same time.
		KMT2A-MLLT1 mRNA, quantitative				In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful
	Containing EDTA-2Na	KMT2A-MLLT1 mRNA, qualitative				attention when collecting and handling samples.
200	(7mL vacuum blood sampling tube)	NUP98-HOXA9 mRNA, quantitative				
2Na 採血量7mL (PN7) (A) 6 名 (施設2	Additives:	STIL-TAL1 mRNA, quantitative	, who o	lo blood		
f .	EDTA-2Na 10.5 mg		DTA-2Na)	R		
月 B EDTA-2Na B法 室源	Storage conditions:	DEK-NUP214 mRNA, qualitative				
उद्राहर	temperature	T-cell receptor $\beta$ -chain $C\beta$ 1 rearrangement				
M	Self-life: 2 years	T-cell receptor $\beta$ -chain $J\beta$ 1 rearrangement				
		T-cell receptor $\beta$ -chain $J\beta$ 2 rearrangement				
		T-cell receptor $\gamma$ -chain $J\gamma$ rearrangement				
		T-cell receptor $\delta$ -chain $J\delta 1$ rearrangement				After drawing blood into a container shown in the left image, mix well, and
		Immunoglobulin H-chain J, rearrangement				refrigerate the specimen.
		Immunoglobulin H-chain C <sub>μ</sub> rearrangement				
		$\begin{array}{c} \text{Immunoglobulin L-chain} \\ \textbf{J}_{\kappa} \text{ rearrangement} \end{array}$				
		$\begin{array}{c} \text{Immunoglobulin L-chain} \\ \textbf{C}_{\kappa} \text{ rearrangement} \end{array}$				
		$\begin{array}{c} \text{Immunoglobulin L-chain} \\ \textbf{C}_{\lambda} \text{ rearrangement} \end{array}$				

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PN7 Previous container symbol		PRRT2 gene mutational analysis			
(A)		MECP2 (exons 3 and 4) mutation analysis			After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen.
		Dystrophin DNA			In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and
	Containing EDTA-2Na (7mL vacuum blood sampling tube)  Fukuyama-type congenital muscular dystrophy DNA insertion  whole blood (with EDTA-2Na)		handling samples.		
2Na Schief 7mL CNYD (A E. 2.) Jenes	Additives: EDTA-2Na 10.5 mg	Chimerism analysis, pre-transplant, recipient, PCR	7.0 each	R	After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. Also, make sure to submit a pair of specimens taken from a recipient and from a donor.
月 501A-2PM 電流 電流	Storage conditions: Room temperature Self-life:	Chimerism analysis, pre-transplant, donor, PCR			In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
	2 years	Chimerism analysis, post-transplant, PCR			After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.
		Varicella-zoster virus DNA, quantitative	whole blood		
		Human herpesvirus, type 6 DNA quantitative	(with EDTA-2Na) 5.0 each		
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
PNK Previous container symbol	Containing the preservation solution(5mL vacuum blood sampling tube)				
	Additives: Preservation solution 0.7 mL	Naturai Killer	whole blood (with the preservation	R	After drawing blood into a container shown in the left image, mix well, and refrigerate the specimen.  Draw a larger amount of blood from patients with low levels of lymphocytes. Please submit a sample on the day it is collected.
S(1)   A de de   S(2)	Storage conditions: Refrigeration	cell activity	solution) 5.0	IV.	
100 mg	Self-life: 1 year (1 month after opening the aluminum sheet)				

		TECT NAME	AMOUNT COLLECTED	AMOUNT SUBMITTED	error	0.44401 5 1144101 1810 44571100															
CONTAIN	IER FORM	TEST NAME	(mL)	(mL)	TEMPERATURE	SAMPLE HANDLING METHOD															
PNM Previous container symbol  g2  by 134640 b	Containing EDTA-2K (10mL vacuum blood sampling tube)  Additives: EDTA-2K 18mg Storage conditions: Room temperature	BRCA1/2 gene test (Breast cancer)  BRCA1/2 gene test (Ovarian cancer)  BRCA1/2 gene test (HBOC)	whole blood 7.0 each (with EDTA-2K)		R	After drawing blood into a container shown in the left image, mix well, and store at room temperature.  Avoid putting in another request at the same time.  In this method, a result is affected proportionally to the degree of contamination. Therefore, pay carefulattention when collecting and handling samples.  Please submit a sample on the day it															
	Self-life: 1 year	Single site testing for BRCA 1/2 gene				is collected.															
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD															
PSD Previous container symbol		Adenovirus DNA, qualitative	conjunctiva swab	conjunctival swab (with SDS)																	
h	SDS Containing	Herpes simplex virus DNA, qualitative Varicella-zoster virus DNA, qualitative				Swab affected area with a sterile cotton swab, place the swab in the															
探取後輩	(Container capability of	capability of	(Container capability of	(Container capability of	(Container capability of	(Container capability of	(Container capability of	(Container capability of	(Container capability of	(Container capability of	(Container capability of	(Container capability of	(Container	(Container capability of	(Container capability of	(Container capability of Cytomegalov	Cytomegalovirus DNA, qualitative	swab of	swab of affected	R	designated container, and store at room temperature. Avoid putting in another request at the same time.
FSD) S D1	Storage conditions: Room temperature	Human herpesvirus, type 6 DNA, qualitative	area	area (with SDS)		In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.															
G <sub>0</sub> *16 00F		Human herpesvirus, type 7 DNA, qualitative																			
		Enterovirus RNA, qualitative	throat swab	throat swab (with SDS)																	
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD															
PSF Previous container symbol P3  William Barrier Symbol P4  William Barrier Symbol P5  William Barrier Symbol P5  William Barrier Symbol P6  William Barrier Symbol P7  William Barrier Symbol P8  William Barrie	Containing EDTA-2K + plasma separating agent (8mL vacuum blood sampling tube) Storage conditions: Room temperature Self-life: 1 year	HIV-1 RNA quantitative	whole blood 8.0	plasma 1.8	F	Draw the specified amount of blood (8 mL) into a container shown in the left image, gently invert the tube 4 to 5 times, and centrifuge the tube at room temperature. Freeze the specimen in the tube and submit it under frozen conditions. Avoid putting in another request at the same time.  In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and handling samples.															

CONTAINER F	FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	SAMP	LE HAND	LING N	METHOD
For 9 mL Storas (S09) Storas condit Roo	rating t t 6mL um blood ling tube) age itions: om nperature	General biochemical tests General serological tests others	As appropriate	As appropriate	of blood left imag gently in and allow temperat After coasample. containe tube), an Please m amount of The cent be 20000 (The tab	ge dependir evert the to w to stand ture for 30 agulation, Transfer th r A00 (poly nd submit in lake sure to f speciments rifugation of for 10 mile below sh and the speciments	tainer shag on the ube 4 to 5 at room to 60 micentrifus he serum yethylenet. hat a sufun is provioustes. hows the	own in the test, stimes, nutes. the into the e test ficient ided.

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD				
S3F S5F Previous container symbol		HBV DNA quantitative, IU	whole blood 5.0	serum 1.8						
(2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Containing	Containing	Containing	Containing	Containing	Containing	Containing	Containing	HCV RNA core genotype  whole blood serum	
For collecting	coagulation accelerator + serum- separating agent (3 or 5mL vacuum blood sampling tube)	HCV RNA 1b (NS5A)	3.0 each	0.5 each	F	Draw the specified amount of blood into a container shown in the left image, gently invert the tube 4 to 5 times, and allow to stand at room temperature for 30 to 60 minutes. After coagulation, centrifuge the tube. Freeze the specimen in the tube and submit it under frozen conditions.				
3 mL of blood (S3F)	Storage conditions: Room temperature	HCV RNA quantitative	whole blood 5.0	serum 1.8		Avoid putting in another request at the same time. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful				
	Self-life: 1 year	HCV DCV-resistant mutation (L31/Y93)			1	attention when collecting and handling samples.				
OFFICE TO SEPARATE THE SEPARATE		HCV NS3 drug resistant mutation (D168)	whole	serum						
The state of the s		HCV NS5B-S282 mutation	3.0 each	0.5 each	1					
For collecting 5mL of blood (S5F)		HCV-1b-IFN/ ribavirin mutation								

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	SAMP	LE HANC	LING M	IETHOD
For 10mL (S9P)	Not containing separating agent (10 or 7mL vacuum blood sampling tube) Storage conditions: Room temperature Self-life: 1 year	drug test	As appropriate	As appropriate	of blood left imag gently invand allow temperat After coa sample. T container tube), and The centr be 2000G (The tabl	e dependir vert the tu v to stand ure for 30 agulation, ransfer th A00 (poly d submit in rifugation 6 for 10min e below shad the spec-	tainer shing on the ube 4 to 5 at room to 60 mi centrifugue serum yethylenet.  condition nutes. hows the	own in the test, is times, nutes. The the into the extest expenses should

## container handling method

CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD	
SEC Previous container symbol e1	Serum- separating agent + coagulation accelerator film (3mL vacuum blood sampling tube) Storage conditions: Room temperature Self-life: 1 year	Eosinophil cationic protein (ECP)	whole blood 2.5-3.0	serum 0.2	R	Draw 2.5 to 3.0 mL of blood into a tube, invert the tube 5 times. After allowing to stand for 60 to 120 minutes at room temperature (24-28°C),centrifuge the tube for 10 minutes. Transfer the serum to the polyethylene test tube (A00), and submit it.  Take care with the temperature change. The value significantly varies with the temperature while standing it.	
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD	
Previous container symbol  e	Containing serum-separating agent and coagulation accelerator (3mL vacuum blood sampling tube)  Additives: Thrombin Heparin neutralizer  Storage conditions: Room temperature  Self-life: 1 year	Aluminum (AI)	whole blood 2.5-3.0	serum 0.6	R	To prevent contamination, collect blood from a shunt by instillation or using a vacuum tube. Immediately after blood sampling, thoroughly mix the blood by inverting the tube. After centrifugation, submit the specimen under refrigerated conditions.	
	CONTAINED FORM						

## CONTAINER FORM Storage conditions: Room temperature

**U00** 

Previous container symbol





Urine container

#### CONTAINER FORM **TEST NAME** STORE TEMPERATURE Chlamydia trachomatis DNA (U10) Neisseria gonorrhoeae DNA R Simultaneous identification of DNA of N. gonorrhoeae and C. trachomatis Previous container symbol **(Y1)** Obtaining specimens from urine Collect the first-voided urine at least 1 hour after the last urination. Sterile dropping pipette (1) Collect the first-voided urine in a sterile cup, and transfer the urine into the dedicated Sterile cup container using a sterile dropping pipette. (2) Fill the urine is to the level between the lines on the dedicated container. (3) Firmly tighten the cap of the dedicated container. (4) Invert the dedicated container 5 times, and submit the specimen under refrigerated conditions. Invert 5 Obtaining from mouth wash specimens Patient must refrain from eating, gargling, brushing teeth, or chewing gum before collecting specimens. (1) Take 15 to 20 mL of sterile physiological saline in the mouth, tilt the head backward, and gargle vigorously for 10 to 20 seconds. (2) Collect all of the mouth wash specimen in a cup, and transfer it to the dedicated container using a dropping pipette to the level between the lines on the container. (3) Firmly tighten the cap of the dedicated container, invert the container for 5 times, and submit the specimen under refrigerated conditions. Additives: Guanidine hydrochloride Storage conditions: Room temperature Self-life: 1 year

#### **CONTAINER FORM**

**U20** 

Previous container symbol

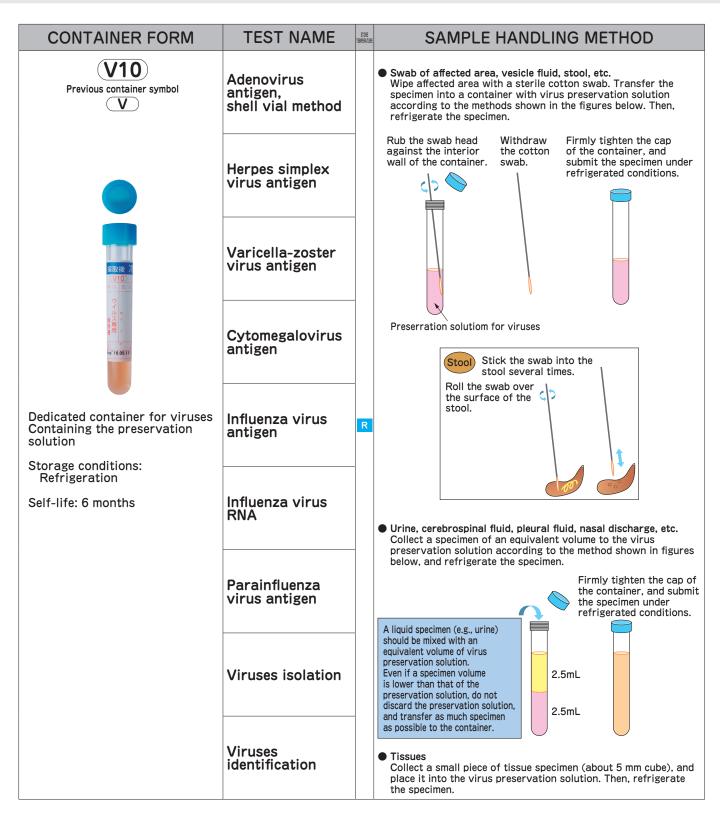
Urine container Storage conditions: Room temperature



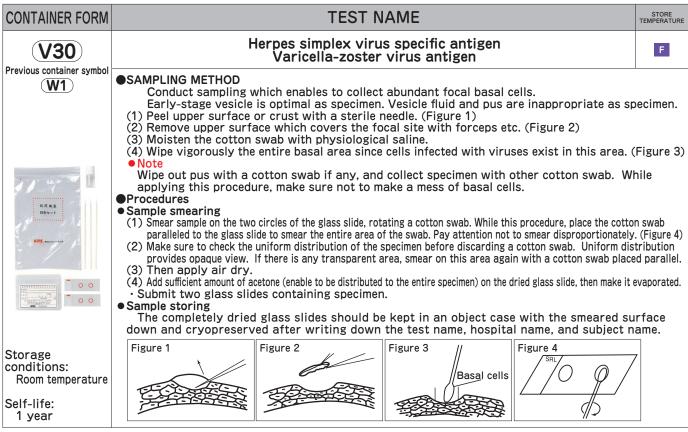
17-ketosteroids (17-KS) 7 fractionation/Pregnanediol/Pregnanetriol

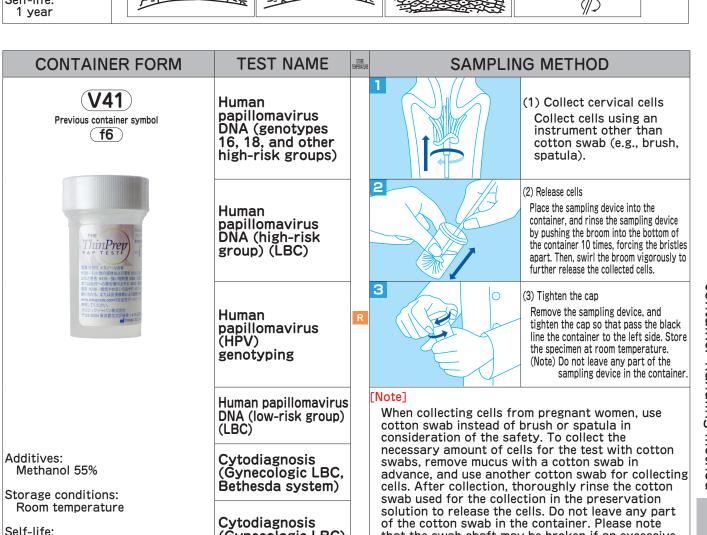
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED	AMOUNT SUBMITTED	STORE	SAMPLE HANDLING METHOD
CONTAIN	VEIX I OIXIVI	TEST WAIVIE	(mL)	(mL)	TEMPERATURE	SAMI LE HAMBEINO METHOD
Previous container symbol  Y5	Containing preservative (Container capability of 10mL)  Storage conditions: Room temperature  Self-life: 2 years	<b>M</b> yoglobin, Urine		om urine 6		Promptly after sampling, pour collected urine into the dedicated container (U50) up to the printed line on the label, mix well, and submit the specimen under refrigerated conditions.  Avoid freezing.
CONTAIN	IER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
Previous container symbol  Y7   Table 1 and 1 an	Containing Tris + Hcl (Container capability of 10mL)  Additives: 1.5 M Tris-Hcl 0.5 mL  Storage conditions: Room temperature  Self-life: 2 years	Collagen type IV, Urine	rand	om urine 5	R	Collect the first-void urine in the early morning, and transfer into a container shown in the left image. After mixing well, refrigerate the specimen. Avoid freezing and putting in another request at the same time.
CONTAIN	IER FORM	TEST NAME		AMOUNT SUBMITTED	STORE TEMPERATURE	SAMPLE HANDLING METHOD
Previous container symbol  Y8	Containing the preservation solution (Container capability of 10 mL) Additives: Urine stabilizer Storage conditions: Protection from light at room temperature Self-life: 2 years and 6 months		(Separate container)	5		Promptly after urine sampling, centrifuge the urine. Transfer the supernatant into the dedicated container to the specimen sampling level, and mix well.  Avoid freezing and putting in another request at the same time. Submit the specimen under refrigerated conditions.
CONTAIN	NER FORM	TEST NAME	AMOUNT COLLECTED (mL)	AMOUNT SUBMITTED (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD
Previous container symbol  b2  Gerell Leave Symbol	Containing the antiplasmin agent  Additives:    Aprotinin    Purified gelatin    Dehydroacetic acid Sodium  Storage conditions:    Room temperature  Self-life:    2 years    (1 week after opening the aluminum package)	FDP, quantitative	random urine (fresh urine) 2	random urine (supernatant) 0.5	F	Collect fresh urine, and transfer into a container shown in the left image. After mixing well, centrifuge at 3000 rpm for 5 to 10 minutes. Be sure to freeze the supernatant (random urine).

CONTAINER FORM	TEST NAME	STORE TEMPERATURE	SAMPLIN	IG METHOD
Previous container symbol				Centrifuge the appropriate amount of urine collected at 1500 rpm for 5 minutes.
ThinPrep Preserve Ly Solution 2011 Solution	Urine cytodiagnosis (LBC)	R		Remove the supernatant and mix the sediment well.
Additives: Methanol 55%  Storage conditions: Room temperature  Self-life: 1 year and 6 months				Pipette the sediment and transfer it into a dedicated container. Firmly tighten the cap before submission. (If the amount of the sediment is too small, put the solution in the dedicated container into a test tube and transfer it again into the container.)
CONTAINER FORM	TEST NAME	STORE TEMPERATURE	SAMPLIN	IG METHOD
Previous container symbol				Centrifuge the proper amount of collected urine (≥33mL) at 1500rpm for 5 minutes.
ThinPrepuse of Solution &	Bladder cancer			Remove the supernatant and mix the sediment well.
Additives:  Methanol 55%  Storage conditions:	FISH (UroVysion)	R		Pipette the sediment and transfer it into a dedicated container before freezing. Confirm that the lid of the container is tightly closed before submission without wrapping with a parafilm.
Room temperature			■Points to note	



#### **TEST NAME CONTAINER FORM** STORE TEMPERATURE Simultaneous identification of rRNA of N. gonorrhoeae and C. trachomatis Mycoplasma genitalium rRNA, qualitative (**V20**) Previous container symbol (F2) Obtaining specimens from urine Urinate at least 1 hour before collecting sample. STEEL STEEL 2. Collect 20 to 30 mL of the first-voided urine in a cup. (Please note that too much urine will cause dilution of the specimen, reducing the detection sensitivity.) 3. Within 24 hours, pipette 2 mL of urine in the dedicated container using an attached dropping pipette, and mix. If the urine is filled to the level between the black lines on the dedicated container, an appropriate amount of urine 4. After the sampling, submit the specimen under refrigerated conditions. Obtaining specimens from the cervical canal 1. Remove excess mucus from the cervical canal and the surroundings using the cleaning swab (white one). Discard the cleaning swab. Insert the collecting swab (blue one) into the cervical canal. Gently rotate the swab clockwise for 10 to 30 seconds to ensure adequate sampling (Figure 1). 4. Withdraw the swab carefully while avoiding any contact with the vaginal mucus. 5. Immediately place the swab into the dedicated container, and mix the specimen with the preservation solution in the container (Figure 4). Carefully break the swab shaft at the score line (Figure 5). Do not spill the contents of the tube. Close the cap firmly while the swab is included in the dedicated container. Submit the specimen under refrigerated conditions (Figure 5). Obtaining specimens from the urethra of men (for urine/mouth Urinate at least 1 hour before collecting sample. washing liquid) Insert the collecting swab (blue one) 2 to 4 cm into the urethra (Figure 2). Gently rotate the swab clockwise for 2 to 3 seconds to ensure adequate sampling (Figure 2). Immediately place the swab into the dedicated container, and mix the specimen with the preservation solution in Section, Willer Park Carefully break the swab shaft at the score line (Figure 5). Do not spill the contents of the tube. Close the cap firmly while the swab is included in the dedicated container. Submit the specimen under refrigerated conditions (Figure 5). Obtaining specimens from the phyarinx (throat swab specimen) 1. Rub the collecting swab (blue one) firmly over the tonsillar arches to ensure adequate sampling (Figure 3). Before obtaining a throat swab specimen, patient must refrain from washing month, eating, or drinking. 2. Immediately place the blue swab into the transport tube, and mix the specimen with the swab transport medium. 3. Carefully break the blue swab shaft at the score line (Figure 4). Do not spill the contents of the tube 4. Firmly tighten the cap of the swab transport tube, and submit the specimen under refrigerated conditions Obtaining mouth wash specimens 1. Patient must refrain from eating, gargling, brushing teeth, or chewing gum before collecting specimens. Have the patient to sit face to face to the examiner. Take 15 to 20 mL of physiological saline (0.9% saline solution) in the month, tilt the head backward, and gargle vigorously for 15 to 20 seconds. Collect all of the gargling liquid into the container for mouth wash specimen. Within 24 hours, pipette 2 mL of the mouth wash specimen in the dedicated container using an attached dropping pipette. If the specimen is filled to the level between the black lines on the dedicated container, (for secretion) an appropriate amount is collected. Additives: After the sampling, submit the specimen under refrigerated conditions. Lithium laurylsulfate, Please note that the swab shaft may be broken if an excessive force is applied to the shaft while collecting additives sample. figure 2 figure 3 figure 1 figure 4 figure 5 Storage conditions: Room temperature Self-life: 1 year





(Gynecologic LBC)

1 year and 6 months

that the swab shaft may be broken if an excessive

force is applied to the shaft.

CONTAINER FORM	TEST NAME	STORE TEMPERATURE	S	SAMPLING METHOD
Previous container symbol	Chlamydia trachomatis DNA			Remove excess mucus from the cervical canal and the surroundings using the dry swab attached in the swab sampling kit. Discard this swab.
· <u>*</u>	Neisseria		5x	Insert the attached FLOQSwabs into the cervical canal. Gently rotate the swab towards the same direction for 5 rounds, and withdraw the swab carefully while avoiding any contact with the vaginal mucus.
###	gonorrhoeae DNA	R	3	Open the cap of the dedicated container, and carefully place the FLOQSwabs into the container while avoiding immersing the tip of the swab in the container solution. Align the score line of the swab shaft with the top edge of the container.
Additives: Guanidine hydrochloride Storage conditions: Room temperature Self-life: 1 year	Simultaneous identification of DNA of N. gonorrhoeae and C. trachomatis			Break the FLOQSwabs shaft using the edge of the dedicated container, and discard the top portion of the swab shaft. Firmly tighten the cap of the dedicated container, and submit the specimen under refrigerated conditions.

#### **CONTAINER FORM**

V60
Previous container symbol
W3

Additives: Preservation solution

Storage conditions: Room temperature

Self-life: 3 years

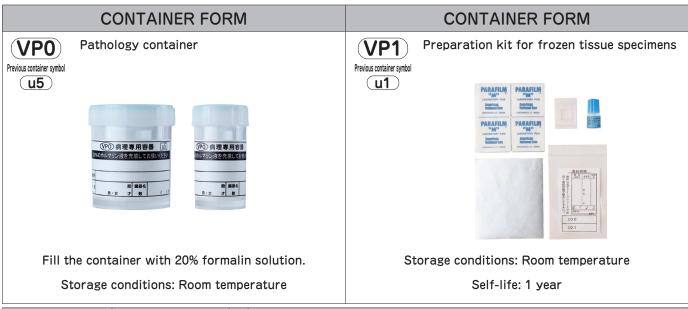




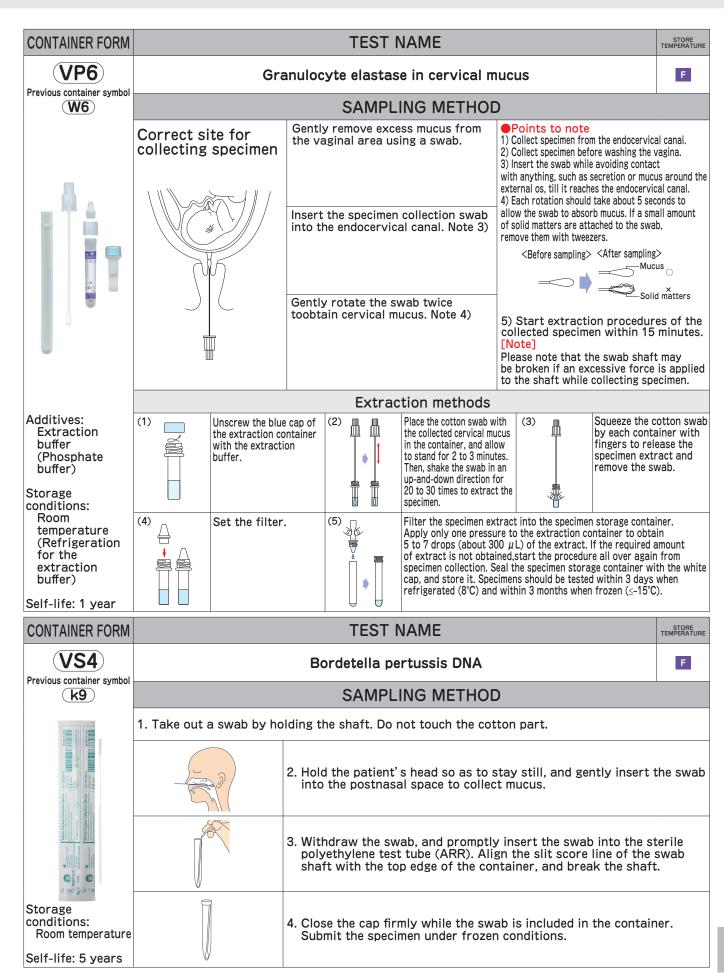
For general use

For pregnant women

Human papillomavirus DNA (high-risk group, low-risk group)
[Note]Please note that the swab shaft may be broken if an excessive force is applied to the shaft while collecting sample.



CONTAINER FORM	TEST NAME	STORE TEMPERATUR	S	AMPLING METHOD		
Previous container symbol			74	Insert a dedicated cotton swab into the posterior vaginal vault, and rotate the swab about 10 seconds to allow it to absorb secretions.  * Do not rub the vaginal surface vigorously.  * Avoid any mucus from being contained into the specimen.		
				Remove the white cap of the specimen extraction container. Immerse the secretion-containing swab in the extraction buffer, and swirl the swab 5 times. (Do not spill the contents of the container.)		
				Take out the cotton swab from the specimen extraction container.		
	Human oncofetal fibronectin	ncofetal	F		Attach a specimen filter to the specimen extraction container.	
Additives:     Extraction     buffer  Storage     conditions:     Room     temperature  Self-life:			Specimen for assay	Drop all of the specimen extract into the specimen storage tube. Close the cap of the tube, and be sure to freeze it.		
1 year		<ul> <li>Points to note</li> <li>Collect specimen before washing the vagina.</li> <li>If sperm are contained in a specimen, do not use it.</li> <li>If ≥0.1% of blood is contained in a specimen, accurate results may obtained.</li> <li>Collect specimen from the posterior vaginal vault.</li> <li>Avoid rubbing the vaginal surface vigorously.</li> </ul>				



CONTAINER FORM		TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED   (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD	
Previous container symbol	Sterile sputum collection container Storage conditions: Room temperature	Nucleic acid identification of M. tuberculosis complex, TRC		R	In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful	
15-4-10-10-11-11-11-11-11-11-11-11-11-11-11-		Nucleic acid identification of MAC, Real-time TRC	sputum 2.0 each		attention when collecting and handling samples.	
		Pneumocystis carinii (P. jirovecii) DNA	2.0 each		Avoid putting in another request at the same time. In this method, a result is affected proportionally to the degree of contamination. Therefore, pay careful attention when collecting and	
		Mycoplasma pneumoniae DNA		F		
		Legionella DNA, qualitative	sputum 1.0		handling samples.	

#### **CONTAINER FORM**

X10
Previous container symbol

Cytodiagnosis, sputum cell concentrations Additives:

Saccomanno's solution, mucolytic agent

Storage conditions: Room temperature (cold and dark place)

Self-life: 1 year



#### **CONTAINER FORM**

XC0

Storage conditions: Room temperature





Dedicated container for calculi

CONTAINER FORM		TEST NAME	AMOUNT COLLECTED AMOUNT SUBMITTED (mL)	STORE TEMPERATUR	SAMPLE HANDLING METHOD
XR4 Previous container symbol	Storage conditions: Room temperature Self-life: 4 years	Phosphorylated tau protein	CSF 0.5		Collect sample in a container shown in the left image, and be sure to store frozen.
2		Tau protein	CSF 1.0	F	Collect sample in a container shown in the left image, and freeze immediately. Place the specimen into the container set (Z50), and be sure to store frozen.

CONTAINER FORM		TEST NAME	AMOUNT COLLECTED   AMOUNT SUBMITTED   (mL)	STORE TEMPERATURE	SAMPLE HANDLING METHOD	
Z10 Previous container symbol  t		Complete blood count (CBC)	blood smear 2-3 slides		Submit blood smears. Store at room temperature.	
		Nasal eosinophils	nasal discharge smear 2-3 slides		Prepare smears with fresh nasal discharge, and submit. Store at room temperature.	
		BRAF V600 mutation analysis, PCR	unstained 5-10 slides		Prepare unstained slides. Place the slides in an object case, and submit under room temperature.  10 µm thick unstained slides (serial sections): 5-10 slides	
		BRAF exon15 V600E (SEQ)	unstained slides • For tumor site confirmation		Prepare unstained slide, and write section thickness on the front side of the slide. Place the slides into an object case	
	[Object cases] Preparation (slide glass) Storage conditions: Room temperature	PIK3CA mutation analysis, SEQ	Section thickness 3.4		shown in the left image, and submit under room temperature. When ordering any of the three tests in the left (regardless of	
		c-kit mutation analysis (GIST)	extraction Section thickness 10 µm: 5-10 slides each		the number of tests ordered at the same time), make sure to also place an order of "Tumor site confirmation test" as well.	
□ オブジェクトケース □ R6 R R R R R R R R R R R R R R R R R		General cytodiagnosis (sputum)	wet-fixed 2 smears			
		General cytodiagnosis (other specimens than sputum)	smears (wet-fixed 1 slide, dry-fixed 1 slide)		Prepare stained smear slides. Place the slides in an object case shown in the left image, and submit under room temperature.	
		Cytodiagnosis (Gynecology, Bethesda system)	wet-fixed smear			
		Cytodiagnosis (Gynecology)	1 slide each			
		Stained specimen preparation	unstained			
		CD30(IHC)	2 slides each		Use a silanized slide and thinly slice the specimen into 3 to 4 $\mu$ m and apply it within 50 mm from the edge of the glass slide.	
		Breast cancer PD-L1 protein, IHC, SP142	unstained 4 slides		Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about 40°C before submitting them. Slice the tissue to the thickness of 4-5 $\mu$ m, and apply it onto the slide at around the center.	

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED AMOUNT SUBMITTED (mL)	SAMPLE HANDLING METHOD	
Z10 Previous container symbol t		Gastric cancer HER2 gene, FISH		Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about $40^{\circ}\!$	
**************************************	[Object cases] Preparation (slide glass) Storage conditions: Room temperature	Gastric cancer HER2 protein, IHC  Lung cancer, PD- L1 protein, IHC, 22C3  Lung cancer, PD-	unstained 4 slides each	Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about 40°C before promptly submitting them. In the case of baking for the purpose of preventing tissues from coming off, treat them in as short a time as possible (less than 1 hour), and avoid leaving the glass slides at high temperatures for any duration longer than that. For reference, the testing guidelines developed by the Pathological committee for gastric cancer HER2 testing recommended that use of materials that have been fixed in 10% neutral buffered formalin for 6 to 72 hours is preferable (depending on the size of specimens for biopsy samples with at least 6 hour fixation). Prepare thin slices of tissue sections 3 to 4 $\mu$ m in thickness.   Use coated slides such as silanized slides, and leave thinly–sliced samples to dry overnight at about 40°C before submitting them. Thinly slice the tissue into 4 to 5 $\mu$ m and apply it onto the slide at around the	
		temperature L	L1 protein, IHC, 28-8 Lung cancer, PD- L1 protein, IHC, SP142 Lung cancer PD- L1 protein, IHC, SP263		center, $\geq$ 15 mm from the frosted edge and $\geq$ 15 mm from the slide glass edge.  Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about 40°C before submitting them. Slice the tissue to the thickness of 4-5 $\mu$ m, and apply it onto the slide at around the center.
		Lung cancer ALK protein, Highly sensitive IHC		Use poly-I-lysine coated or silane treated slides. Prepare thin slices of tissue sections 4 $\mu$ m in thickness. Place the section onto the slide at	
		Lung cancer ALK protein,(IHC) D5F3		around the center. After drying at 37°C for 24 hours, submit the slides.	
		Lung cancer ALK gene, FISH	unstained 3 slides	Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about 40°C before submitting them. Prepare thin slices of tissue sections 4 to 6 $\mu m$ in thickness. In the case of baking for the purpose of preventing tissues from coming off, treat them for about 2 to 24 hours.	

CONTAIN	ER FORM	TEST NAME	AMOUNT COLLECTED AMOUNT SUBMITTED (mL)	SAMPLE HANDLING METHOD
Z10 Previous container symbol		Melanoma PD-L1 protein, (IHC)28-8		Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about $40^{\circ}$ C before submitting them. Thinly slice the tissue into 4 to 5 $\mu$ m and apply it onto the slide at the center, $\geq$ 15 mm from the frosted edge and $\geq$ 15 mm from the slide glass edge.
(国) オブリェフトケース [] 月底	[Object cases] Preparation (slide glass) Storage conditions: Room temperature	Head and neck cancer PD-L1 protein, IHC, 22C3	unstained 4 slides each	Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about 40°C before submitting them. Slice the tissue to the thickness of 4-5 $\mu$ m, and apply it onto the slide at around the center.
		Head and neck cancer PD-L1 protein, (IHC) 28-8		Use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about $40^{\circ}$ C before submitting them. Thinly slice the tissue into 4 to 5 $\mu$ m and apply it onto the slide at the center, $\geq$ 15 mm from the frosted edge and $\geq$ 15 mm from the slide glass edge.
		CCR4 protein, IHC	6 unstained slides	For a testing material, provide unstained slides prepared using paraffin blocks that have been fixed in 10-20% neutral buffered formalin fixative for about 24 to 48 hours before embedding. Thinly slice the samples into 3 to 4 $\mu$ m, use coated slides such as silanized slides, and leave thinly-sliced samples to dry overnight at about 40°C before submitting them.
		OncotypeDX Breast	9 slides in total (Refer to Preparing HE stained and unstained sample slides)	<ul> <li>(1) First, thinly slice a tissue section of 3 to 4 μm thickness for HE staining.</li> <li>• Write "A HE" on the slide.</li> <li>(2) Next, thinly slice 6 tissue sections of 10 μm thickness for RNA extraction.</li> <li>• When picking up the tissue sections, arrange them so that they are all in the same directions.</li> </ul>
		OncotypeDX DCIS		<ul> <li>Leave the sections that have been picked up to dry naturally; avoid paraffin melting.</li> <li>Write down the numbers 1 to 6 in the order the sections were sliced off.</li> <li>(3) Lastly, thinly slice 2 tissue sections of 3 to 4 μm thickness for HE staining.</li> <li>Write "B HE" and "C HE" on the slides.</li> </ul>
		OncotypeDX Colon		<ul> <li>* When preparing samples, please take the following precautions to avoid contamination:</li> <li>• Replace the microtome blades for every sample.</li> <li>• Use clean water when picking up the sections.</li> <li>• When slicing off thin sections, do not handle samples with bare hands but use disposable gloves.</li> </ul>

Points to note concerning the submission of samples for genetic tests for malignant tumor (solid tumor).

CONTAINER FORM		TEST NAME	UNSTAINED SLIDE (NUMBER)	THICKNESS (µm)	RATE OF TUMOR CELL	STORE TEMPERATURE	
Z10 Previous container symbol		BRAF V600 mutation analysis, PCR	5-10	10	≥ 50%		
t		EGFR mutation analysis v2.0	5-10	10	≥ 10%		
		EGFR gene mutational analysis (Scorpion-ARMS technique)	5-10	5-10	≥ 10%		
(型)オブジェクトケース []	[Object cases] Preparation (slide glass)  Storage conditions: Room temperature	Qualitative detection of ROS1 gene fusions (FFPE)	5	5	≥ 30%		
派名 男・火 マ 衣取 教 多称と		IDH1/2 gene analysis (Glioma) (FFPE)	5-10	4-10	≥ 20%	R	
		RAS/BRAF gene mutational analysis	5	5-10	≥ 10%	K	
		Microsatellite instability (MSI) test (FFPE)	5-10	5	≥ 50%		
		Oncomine Dx Target Test CDx system (FFPE)	5-10	5	≥ 30%		
		Oncomine Dx Target Test Multi-CDx System 4genes analysis (FFPE)	5-10	5	≥ 30%		
		Oncomine Dx Target Test Multi-for research 46genes analysis (FFPE)	5-10	5	≥ 30%		
		NCC Oncopanel System	5	10	≥ 20%	R	
		FoundationOne CDx Cancer genome profile	10	4-5	≥ 30%	0	
		Microsatellite instability (MSI) test (Lynch syndrome)	5-10	5	≥ 50%	R	
COLLECTING METHOD							

#### ■Condition for submission

Perform histopathological assessment on unstained sample slides, and confirm that a sufficient proportion of tumor cells are available for the testing.

If the proportion of tumor cells is not sufficient, mark the tumor cell region on the back side of the unstained sample slide.

Please note that submission of unmarked slides leads to impact on the test result (e.g., fasle negativity) due to inability to perform micro-dissection.

For microsatellite instability (MSI) test (FFPE) and microsatellite instability (MSI) test (Lynch syndrome), tumor part and normal part must be distinguished because of the characteristics of the test. Be sure to mark the tumor cell region.

#### •Unstained sample slide

Immediately immerse the collected tissue in 10% formalin neutral buffer solution for fixation (recommended duration of fixation: 6-48 hours).

Wherever possible, continuously slice the formalin fixed and paraffin embedded (FFPE) block produced in the past 3 years at a designated thickness to prepare serial sections.

For submission, pay thorough precaution against contamination by changing microtome blades for each specimen. The DNA has undergone fragmentation due to formalin-fixed tissues. Therefore, please note that an analysis may not be possible depending on the conditions and period of storage, as well as the type and composition of a fixing solution and fixation time.

#### Biopsy sample

Make sure to handle biopsy specimen with special care as only a trace amount of specimen is extracted, and in some cases most tissues may not be present, or they may not include tumor cells.

