

Acceptance of samples from patients with specified infectious diseases

According to our regulations and the Infectious Diseases Control Law (Act on the Prevention of Infectious Diseases and Medical Care for Patients with Infectious Diseases), we cannot accept samples from patients with confirmed infectious diseases, suspected disease carriers, and asymptomatic carriers.

Please refer to the following diseases.

[Specified Infectious Diseases]

- Class I Infectious Diseases
 - Ebola haemorrhagic fever, Crimean-Congo haemorrhagic fever, smallpox, viral haemorrhagic fever such as South American haemorrhagic fever and Lassa fever, plague, and Marburg virus disease
- Severe acute respiratory syndrome (SARS)

The storage period of the submitted sample

The samples are stored for 3 weeks from the request day, and covering requests for retests and additional tests. However, the samples for a peripheral blood test and some other tests will be stored for 1 week. SRL will dispose of the samples after the storage period is over. If a test is outsourced by SRL to an external site, the samples will be stored in compliance with the regulations of the site.

Points to note before requesting test items for RIA

Please note that remaining isotope administered to *in vivo* in scintigraphy, etc. may result in abnormal values in RIA.

Disclaimer

Tests are conducted according to SRL criteria; however, depending on the condition of the sample we receive, technical limitations of the test methods, etc., the results may not be suitable to determine clinical diagnosis. In this case, SRL will not be responsible for the test results.

Retest

Retests are conducted according to SRL criteria.

If the sample you submitted does not satisfy the required test volume, retests cannot be conducted.

Contents for General Test Information



















1. **Specimen requirement** : the sample volume is set considering the volume for the retest.
Please collect serum or plasma sample of about 3 times more than the required volume. (Please see page ① for blood sampling method)
2. **Storage** : Please submit samples stored in the specified manner.
 - F** Submit the sample under frozen conditions ($\leq -10^{\circ}\text{C}$).
 - R** Submit the sample under refrigeration ($2^{\circ}\text{C}-15^{\circ}\text{C}$).
 - R** Submit the sample at room temperature ($16^{\circ}\text{C}-30^{\circ}\text{C}$).
3. **Reference range** : “Normal reference values and criteria” is described as REFERENCE RANGE for SRL.
4. **Turnaround time (day)** : The period is, in principle, from the day after we received the sample to the day the results are delivered to you (including Saturdays and Sundays).
Some additional days are necessary for retests or before and after holidays.
If other materials not described are requested or if samples are requested as well as items with a freezing label, they will be delivered later than the indicated dates.
5. **Sample collection conditions** : The following are some points to note when collecting samples appropriately. (See COMMENT or container handling method.)
6. **Conditions for submission** : Items such as whether serum separation is required or not are essential for appropriate test/measurement. (See COMMENT or container handling method.)
 - Immediately** After blood sample collection, avoid long-time storage at room temperature and centrifuge it immediately. Some items have designated time to centrifuge, while others require cooling prior to pretreatment or centrifuge. See COMMENT or container handling method as well.
 - Refrigerated** Please centrifuge the samples at low temperature (4°C).
7. **Test value range for emergency report** **Emergency** : The test value range for emergency report (See page ①) is set. If a value exceeds the range, we will contact you immediately.
8. **Reserved test** **Reservation** : An advanced reservation is required for the test. Please contact your nearest office prior to taking the sample.
9. **The specified days of the week** **Specified days** : Make sure that the day of the week (except holidays) is specified to receive the sample. See COMMENT in the text for acceptable days.

Major units and symbols

L	liter	M	mol/L
dL	deciliter (=0.1 L)	mmol	millimole (=0.001 mol)
mL	milliliter (=0.001 L)	μmol	micromole (=10 ⁻⁶ mol)
μL	microliter (=10 ⁻⁶ L)	nmol	nanomole (=10 ⁻⁹ mol)
fL	femtoliter (=10 ⁻¹⁵ L)	pmol	picomole (=10 ⁻¹² mol)
kg	kilogram	fmol	femtomole (=10 ⁻¹⁵ mol)
g	gram	mm	millimeter
mg	milligram (=0.001 g)	mm ²	squaremillimeter
μg	microgram (=10 ⁻⁶ g)	mm ³	cubicmillimeter
ng	nanogram (=10 ⁻⁹ g)	μ^3	cubicmicron
pg	picogram (=10 ⁻¹² g)	Meq	megaequivalents
U	unit	mEq	milliequivalent
mU	milliunit (0.001 U)	mOsm	milliosmole
μU	microunit (10 ⁻⁶ U)	%	percent
IU	international unit	‰	permill
mIU	milliinternational unit (=0.001 IU)	cpm	counts per minutes
AU	arbitrary unit	U _A	unit allergen

User's Guide

List of markers

Notifications/ report	Reserved test 	An advanced reservation is required for the test. Please contact the office nearest you prior to taking the sample.
	Specified days of the week 	Make sure that the day of the week (except holidays) is specified to receive the sample. See COMMENT in the text for acceptable days.
	Emergency 	The test value range for emergency report (See page 11) is set. If a value exceeds the range, we will contact you immediately.
	Human ethics 	Subject to ethical guidelines for human genes. Please contact the person in charge in advance.
	PGx 	Subject to pharmacogenomics (PGx). Please contact the person in charge in advance.
	Overseas 	The samples are delivered overseas. The final test is conducted in the US. Please note that the samples you provide will not be returned.
	No overlapping requests 	Avoid putting in another request at the same time.
Sample handling method	Centrifuge immediately 	After blood (urine) sample collection, avoid long-time storage at room temperature and centrifuge it immediately. Some items have a designated time to centrifuge, while others require cooling prior to pretreatment or centrifuge. See COMMENT or dedicated container handling method as well.
	Refrigerated centrifuge 	Please centrifuge the samples at low temperature (4°C).
	Freeze 	Submit the sample under frozen conditions ($\leq -10^{\circ}\text{C}$).
	Refrigeration 	Submit the sample under refrigeration (2°C–15°C). Please freeze the sample for long-term storage, except for items marked with  .
	Room temperature 	Submit the sample at room temperature (16°C–30°C).
	Light shielding 	Avoid direct sunlight or fluorescent lamp light and submit samples with a light-shielding container.
Effect on values	No hemolysis 	Avoid hemolytic samples that may affect test values.
	No inactivation 	Avoid inactivated samples that may affect test values.
	No acid urine collection 	Avoid acid urine collection that may affect test values.
	No freezing 	Avoid freezing at $\leq -10^{\circ}\text{C}$ that may affect test values.

How to read the test name column

The period is from the day after we receive the sample to the day the results are delivered to you. Additional days are necessary for retests or before and after holidays.

Methodology names are shown. Please see pages A-C for overview of methodology.

Points to note before requesting tests.

CODE	TEST NAME	SPECIMEN REQUIREMENT (mL)	CONTAINER	STORE TEMPERATURE (STABILITY)	TURNAROUND TIME (DAY)	METHODOLOGY	REFERENCE RANGE (UNIT)	COMMENT
0381 2	Protein, total (TP)	serum 0.5	S09 ↓ A00	R (1 month)	2-4	Biuret method	6.7-8.3 (g/dL)	
5203 9		CSF 0.5	A00	R		Pyrogallol red method	15-45 (mg/dL)	
0246 3		urine collected for 24 hrs. 0.5	U00	R			31.2-120.0 (mg/day)	
0185 4	Albumin, quantitative	serum 0.5	S09 ↓ A00	R (1 month)	2-4	Nephelometry	3900-4900 (mg/dL)	
5059 2	Albumin (Alb)	serum 0.5	S09 ↓ A00	R (21 days)	2-4	Improved BCP method	3.8-5.2 (g/dL)	Reaction method with BCP, highly specific to human albumin.
0721 4	Albumin, Urine	urine collected for 24 hrs. 0.5	U00	R (1 month)	2-4	Turbidimetric immunoassay (TIA)	2-20 (mg/day)	Acid-Urine
5106 7	Albumin, Urine (creatinine ratio)	random urine 1	U00	R (1 month)	2-4	Turbidimetric immunoassay (TIA)	Urinary albumin ratio ≤ 10.0 (mg/g CRE)	Acid-Urine
0382 0	A/G ratio	serum 0.5	S09 ↓ A00	R (1 month)	2-4	Improved BCP method/ Biuret method	1.1-2.1	
6510 5	Protein fractionation	serum 0.3	S09 ↓ A00	R	2-4	Capillary electrophoresis	ALB 55.8-66.1 (%) α 1-globulin 2.9-4.9 (%) α 2-globulin 7.1-11.8 (%) β 1-globulin 4.7-7.2 (%) β 2-globulin 3.2-6.5 (%) γ-globulin 11.1-18.8 (%) A/G 1.3-1.9	Hemolysis Avoid hemolytic samples.
2265 1	Urine protein fractionation	random urine 1	U00	R		Agarose gel electrophoresis	(%)	Make sure to order Code No. 6510 5: Protein fractionation for serum specimens.

The following are the storage conditions for submission. Please note that these are not storage conditions after blood collection. The stability in parentheses presents a rough indication of time possible for sample storage based on our data.

See below.

Refer to the following examples for handling containers. Some items have specific conditions for handling containers. See COMMENT or container handling method as well.

(Ex.1) serum samples

SPECIMEN REQUIREMENT (mL)	CONTAINER
serum 0.5	S09 ↓ A00

Collect blood samples in the container for general purpose use (S09). After centrifuge, pipet 0.5 mL of serum into the (A00) container and submit it. Please collect 3 times more serum or plasma sample than the required volume.

(Ex.2) when transferring a sample into a container with additives and submitting the supernatant after centrifuge

SPECIMEN REQUIREMENT (mL)	CONTAINER
plasma 0.5	PN2, PN5 ↓ A00

Collect blood samples in the container designated by SRL (PN2, PN5). After centrifuge, pipet 0.5 mL of plasma into the (A00) container and submit it. Please collect 3 times more serum or plasma sample than the required volume.

(Ex. 3) blood sample with additives

SPECIMEN REQUIREMENT (mL)	CONTAINER
whole blood 5.0 (with EDTA-2Na)	PN7

Pipet 5.0 mL of blood into the container designated by SRL (PN7). Mix it well and submit it. Use the same container (PN7) for collection and submission. Do not transfer into a different container.