

2. Sample Diluent Bottle 1 containing 15 mL of a proprietary Tris-Glycine buffered solution containing cell lysate reagents.
 3. Color Developer Bottle 2 containing 1.5 mL of a blue-colored Biotin buffered proprietary indicator reagent.
 4. Clarifying Solution, containing 1.5 mL of a proprietary SARS-CoV-2 antibodies dilution solution designed to remove background staining from the Membrane Unit prior to reading the result.

SUPPORT MATERIALS

- The following materials are required when testing fingerstick whole blood and are included with each kit:
 1. Single-use Pipette, 50 µL
 2. Single-Use Alcohol Swab
 3. Single-Use Lancet Becton, Dickinson and Company Limited located at Fetter road, Dun Laoghaire, Co. Dublin, Ireland.

MATERIALS REQUIRED BUT NOT PROVIDED

- Personal protective equipment such as gloves, lab coat, or gown
- Bivalved waste containers
- Absorbent cotton balls for fingersticks or venipuncture wound closure or bandage

MATERIALS AVAILABLE AS AN ACCESSORY BUT NOT PROVIDED IN THE KIT

- INSTI® COVID-19 Test Controls
 See INSTI COVID-19 Test Controls.

General Procedure after Sampling:

1. Fill specimens to room temperature and mix each specimen thoroughly prior to use. **Do not heat** prior to refrigerating specimens.
2. Using a pipette, add 50 µL of whole blood, serum, plasma, or cell culture fluid to the control (see NOTE below) if the sample will not clot. Hold the pipette vertically and seal a finger over (without pressing) the vial hole, then squeeze the bulb. Recap the vial and mix by inversion. Follow General Procedure after Sampling, below.

Sampling Venipuncture Whole Blood, serum, plasma and Test Controls:

1. Bring specimens to room temperature and mix each specimen thoroughly prior to use. **Do not heat**
2. Using a pipette, add 50 µL of whole blood, serum, plasma, or cell culture fluid to the control (see NOTE below) if the sample will not clot. Recap the vial and mix by inversion. Adding an excessive amount of specimen may cause the device to overflow or leak.

- NOTE:** In POC settings, for INSTI® Test Controls, it is important to use a 50 µL pipette to add the control material to the Sample Diluent Vial and not use the disposable single-use pipette provided for control material to blood stick collection.

General Procedure after Sampling:

1. Tear open the Membrane Unit pouch and remove the Membrane Unit without touching the surface of the vial. Place the device on a level surface. For sample identification purposes the date of the Membrane Unit may be labeled with the patient's name.
2. At this point, it is important that the following steps be performed immediately and in sequence.

2. Mix the Sample Diluent specimen mixture by inverting several times and allow the specimen to stand for approximately 1 minute. If the specimen has been added to the Sample Diluent vial immediately after the specimen has been added to the Sample Diluent vial, the sample will be absorbed through the membrane in less than 30 seconds; however, absorption times will vary slightly depending upon sample type.
3. Reassure the Color Developer by slowly inverting to mix the solution thoroughly until the reagent is evenly suspended and add the entire contents to the center of the Membrane Unit well. The control solution should flow through completely in about 20 seconds.
4. Open the Clarifying Solution and add the entire contents to the center of the Membrane Unit well. This will often the background color and facilitate reading. Results can be read immediately. **Do not read the results if more than 30 minutes has elapsed following the addition of Clarifying solution.**

QUALITY CONTROL.

Kits:

- The INSTI COVID-19 Antibody Test has a built-in antibody capture procedural control that demonstrates assay validity and adequate sample addition. A blue color on the control dot indicates that the proper specimen and adequate sample addition have been performed correctly. The control dot will appear on all valid tests. (Refer to Interpretation of Results, below.)

- INSTI COVID-19 Test Controls are available separately for use only with the INSTI COVID-19 Antibody Test. The controls are used to verify test performance and interpretation of results. Kit controls should be under the following circumstances:

- If a new operator verification prior to performing testing on patient specimens
- when switching to a new lot number of INSTI Test kits
- when the temperature of the test kit is outside of 2° to 30°C
- when the temperature of the test kit is outside of 15° to 30°C
- at regular intervals as determined by the user facility.

- Refer to the INSTI COVID-19 Test Controls Package Insert for additional information on the use of these reagents. It is the responsibility of each laboratory using the INSTI COVID-19 Antibody Test to establish an adequate quality assurance program to ensure the performance under their specific conditions and conditions of use.

INTERPRETATION OF RESULTS

REACTIVE

- Do not read the results if more than 20 minutes have elapsed following the addition of sample to the control.
- If using the control provided by biological, all Positive Controls must be reactive with INSTI and all Negative Controls must be non-reactive with INSTI. Controls that produce incorrect or invalid results must be re-tested with INSTI. If results are still incorrect or invalid results must be re-read immediately.

NON-REACTIVE

- One dot is visible on the membrane above any Control Dot and one dot is visible on the membrane below the Control Dot. This is the expected pattern. If the Control Dot is located towards the top of the read frame (furthest from the spool tab) or the Negative Control Dot is located below the Control Dot, Non-reactive results must be obtained from the test.
- When the temperature of the test kit is outside of 15° to 30°C
- at regular intervals as determined by the user facility.

INVALID

- The test is invalid if any of the following occurs:
 A. Both Unreactive dots are located across the membrane
 B. There is no dot across the membrane
 C. There is no dot on the membrane
 D. Only blue specks appear on the membrane

WARNINGS

1. Do not use reagents from different lots.
 2. Do not use reagents if they are past their expiration date on the outer packaging label.
 3. Do not use reagents if they are beyond their expiration date as per the Package Insert. Any deviation may result in false or invalid results.
 4. Do not use the Membrane Unit if the foil pouch has been previously opened or if the packaging integrity has been compromised. Once the Membrane Unit has been opened, it must be used immediately.
 5. Avoid direct contact of the Membrane Unit with any sharp objects and avoid contact with hot surfaces.
 6. Avoid direct contact of the Membrane Unit with any sharp objects and avoid contact with hot surfaces.
 7. Do not use the Membrane Unit with large amounts of water to prevent azide build-up. Contact with local regulatory agencies to determine at what concentration Sodium Azide may cause a product to be regulated as hazardous waste.
 8. If the kit is refrigerated, ensure it is brought to room temperature before performing the test. Use the INSTI COVID-19 Test Controls to ensure proper kit performance.

WARNING PRECAUTIONS

1. Wear disposable gloves while handling kit reagents and specimens. Change gloves and wash hands thoroughly after performing each test.
 2. Avoid contact with skin and eyes. If contact occurs, wash affected areas with water.
 3. Disposal methods of discarded materials are determined by autoclaving for a minimum of one hour at 121°C. Dispersible materials may be incinerated. Liquid waste may be mixed with sodium hypochlorite (bleach) in volumes such that the final mixture contains 1.0% sodium hypochlorite using freshly prepared solutions containing 10% household bleach. Allow at least 60 minutes for decolorization to be completed. Do not autoclave solutions that contain bleach.
 4. Spills should be cleaned up and decontaminated in accordance with the user facility's established procedure for handling biohazardous materials and waste disposal.

5. For additional information on safety, refer to *Universal Precautions for prevention of transmission of Human Immunodeficiency Virus, Hepatitis B Virus, and other bloodborne pathogens* and in accordance with Local, Federal or European Regulations. Follow standards for safety guidelines for handling and disposal of potentially infectious material.

INSTRUCTIONS FOR USE

Gather the material you will need.

- Allow the INSTI COVID-19 assay to come to operating temperature before use.
- Refer to the Quality Control section in this Package Insert to determine when the Test Controls should be run.

Specimen Collection and Test Procedure

Sampling Fingerstick Blood:

1. Massage the finger to allow it to move to the surface (finger tip will become pink). Use heating pad if available to warm the hand. Hand must be positioned at wrist level or lower.
2. Wrap the finger in a clean alcohol swab. Allow the finger to dry.
3. Take and remove the protective insert from the lancet. Press the finger firmly at the point just below where the lancet will be applied. With the other hand, place the lancet on the side of the fingertip and press hard until it clicks.
4. As the blood droplet forms, hold the pipette horizontally and touch the tip of the pipette to the blood sample. Capillary action automatically draws the sample into the pipette.
5. Gently draw the blood sample into the pipette. If necessary, gently tap the pipette to draw the sample into the pipette.
6. Remove the pipette from the blood sample and add the sample to the Sample Diluent Vial.
7. Seal or cover the Sample Diluent Vial.
8. Label the Sample Diluent Vial.
9. Add the Sample Diluent Vial to the Membrane Unit.
10. Add the Clarifying Solution to the Membrane Unit.
11. Add the Color Developer to the Membrane Unit.
12. Add the Membrane Unit to the Membrane Unit pouch.
13. Seal the Membrane Unit pouch.
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Serological Comparator Algorithm Result as the Standard			
	Positive (n)	Negative (n)	
INSTI COVID-19 Test Results	44	2	
Total	46	12	
Positive Rate (%)	93.5% [92.9%-94.8%]	True Negative Rate (%)	98.4% [94.3%-99.6%]

Interfering Substances
The effect of the following pharmaceutical compounds and endogenous substances tested up to the test concentration and no impact on assay performance was tested. Interference was tested to the test concentration and no impact on results was observed.

Pharmaceutical Compounds	Maximum concentration tested*
Oseeltamivir phosphate	0.399 μ g/ml
Aztreonam	11.1 μ g/ml
Merpopenem	0.39 μ g/ml
Tobramycin	33.0 μ g/ml
Acetylsalicylic acid	3.0 μ g/ml
Paracetamol	0.156 μ g/ml
Eurofuran	0.169 μ g/ml
Eurolactam	0.658 μ g/ml
Nicotine	0.568 μ g/ml
Melatonin	12.0 μ g/ml
Glibenclamide	1.64 μ g/ml
Rabeprazol	5.40 μ g/ml
Hydroxychloroquine sulfate	0.84 μ g/ml
Ritonavir	5.0 μ g/ml
Lopinavir	2.0 μ g/ml

Endogenous Substances
Maximum concentration tested*

Hemoglobin	10 ng/ml
Bilirubin, conjugated	0.4 mg/dL
Bilirubin, unconjugated	0.4 mg/dL
Cholesterol	4.0 mg/dL
Total Protein	60 mg/dL
Intralipid	20.5 mg/ml
IgG	6 mg/ml

Analytical Specificity
Out of 72 potentially cross-reactive samples, no samples showed reactivity in the INSTI COVID-19 Antibody Test, resulting in an overall specificity in this color of 100%. The following are conditions tested.

Indication	Number of Unique Samples	Non-Reactive	Reactive
Human coronavirus 229E*	10	10	0
Human coronavirus OC43*	9	9	0
Human coronavirus HKU1*	6	6	0
Human coronavirus NL63*	6	5	0
Influenza A***	12	12	0
Influenza B***	13	13	0
Influenza C	17	17	0
Respiratory Syncytial Virus	15	15	0
Pandemic H1N1-1*#	18	18	0
Adenovirus**	8	8	0
Enterovirus**	7	7	0
<i>M. pneumoniae</i> **	17	17	0
<i>Legionella</i> **	5	5	0
<i>B. pertussis</i> **	8	5	0
<i>C. trachomatis</i> **	13	8	0
Adult Bacterial Pneumonia**	3	3	0
Bacterial Endocarditis	7	7	0
Bacterial Urinary Tract Infection	5	5	0
Pregnancy (1 st Trimester)	5	5	0
Pregnancy (2 nd -Trimester)	5	5	0
Pregnancy (3 rd Trimester)	5	5	0
Multigravid Women	6	6	0

*Represents 10 unique samples overall, some samples were co-infected with multiple species of the coronavirus.

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TECHNICAL INFORMATION

For further information or assistance, contact the Technical Services at 1-804-644-4677.
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