Name of Facility

Location

Title: SARS-CoV-2 - BD Veritor System

Procedure #:

If possible, perform this test in a biological safety hood. Use standard precautions wearing gloves, gown, mask, face shield or goggles when performing this test.

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| --- | --- |
| **Principle:** | The BD Veritor™ System for Rapid Detection of SARS-CoV-2 is a chromatographic digital immunoassay intended for the direct and qualitative detection of SARS-CoV-2 nucleocapsid antigens in nasal swabs from individuals who are suspected of COVID-19 by their healthcare provider within the first five days of the onset of symptoms. Testing is limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C. §263a, that meet the requirements to perform moderate, high or waived complexity tests. This test is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation.  Results are for the identification of SARS-CoV-2 nucleocapsid antigen. This antigen is generally detectable in upper respiratory samples during the acute phase of infection. Positive results indicate the presence of viral antigens, but clinical correlation with patient history and other diagnostic information is necessary to determine infection status. Positive results do not rule out bacterial infection or co-infection with other viruses. The agent detected may not be the definite cause of disease. Laboratories within the United States and its territories are required to report all positive results to the appropriate public health authorities.  Negative results should be treated as presumptive, do not rule out SARS-CoV-2 infection and should not be used as the sole basis for treatment or patient management decisions, including infection control decisions. Negative results should be considered in the context of a patient’s recent exposures, history and the presence of clinical signs and symptoms consistent with COVID-19, and confirmed with a molecular assay, if necessary, for patient management.  The BD Veritor System for Rapid Detection of SARS-CoV-2 is intended for use by trained clinical laboratory personnel specifically instructed and trained in the techniques of in vitro diagnostic procedures, and proper infection control procedures and individuals similarly trained in point of care settings. In the United States, the BD Veritor System for Rapid Detection of SARS-CoV-2 is only for use under the Food and Drug Administration’s Emergency Use Authorization.  The BD Veritor System consists of a dedicated opto-electronic interpretation instrument and immunochromatographic assays for the qualitative detection of antigens from pathogenic organisms in samples processed from respiratory specimens. The BD Veritor System for Rapid Detection of SARS-CoV-2 is designed to detect the presence or absence of SARS-CoV-2 nucleocapsid proteins in respiratory samples from patients with signs and symptoms of infection who are suspected of COVID-19. When specimens are processed and added to the test device, SARS-CoV-2 antigens present in the specimen bind to antibodies conjugated to detector particles in the test strip. The antigen-conjugate complexes migrate across the test strip to the reaction area and are captured by a line of antibodies bound on the membrane. A positive result is determined by the BD Veritor Plus Analyzer when antigen-conjugate is deposited at the Test “T” position and the Control “C” position on the assay device. The instrument analyzes and corrects for non-specific binding and detects positives not recognized by the unaided eye to provide an objective result.  **CLIA COMPLEXITY: Waived – For Use under the Emergency Use Authorization (EUA) only** |
| **Warnings and Precautions** | * For in vitro diagnostic use. * In the USA, this test has not been FDA cleared or approved; this test has been authorized by FDA under an EUA for use by authorized laboratories; use by laboratories certified under the CLIA, 42 U.S.C. §263a, that meet requirements to perform to perform moderate, high or waived complexity tests and at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation * This test has been authorized only for the detection of proteins from SARSCoV-2, not for any other viruses or pathogens; and, in the USA, this test is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of the virus that causes COVID-19 under Section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner. * Do not use this kit beyond the expiration date printed on the outside carton. * Do not use the kit to evaluate patient specimens if either the positive control swab or negative control swab fail to give expected results. * Test results are not meant to be visually determined. All test results must be determined using the BD Veritor Plus Analyzer. * To avoid erroneous results, specimens must be processed as indicated in the assay procedure section. * Do not reuse any BD Veritor System test device or kit components. * When collecting a nasal swab sample, use the nasal swab supplied in the kit. Use of alternative swabs may result in false negative results. * Proper specimen collection, storage and transport are critical to the performance of this test. * Specific training or guidance is recommended if operators are not experienced with specimen collection and handling procedures. Wear protective clothing such as laboratory coats, disposable gloves, and eye protection when specimens are collected and evaluated. * Pathogenic microorganisms, including hepatitis viruses and Human Immunodeficiency Virus, may be present in clinical specimens. Standard precautions and institutional guidelines should always be followed in handling, storing, and disposing of all specimens and all items contaminated with blood or other body fluids. * The SARS-CoV-2 positive control swabs have been prepared from recombinant viral proteins and do not contain infectious material. * Dispose of used BD Veritor System test devices as biohazardous waste in accordance with federal, state and local requirements. * Reagents contain sodium azide, which is harmful if inhaled, swallowed or exposed to skin. Contact with acids produces very toxic gas. If there is contact with skin, wash immediately with plenty of water. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up. * Test devices used in a laminar flow hood or in areas with high air flow should be covered during test development to ensure proper sample flow. * For additional information on hazard symbols, safety, handling and disposal of the components within this kit, please refer to the Safety Data Sheet (SDS) located at bd.com. |
| **Reagents and Equipment Required:** | The following components are included in the BD Veritor System for Rapid Detection of SARS-CoV-2 kit.   |  |  |  | | --- | --- | --- | | Kit Component | Quantity | Description | | BD Veritor System Test Devices | 30 single use test devices | Foil pouched test device containing one reactive strip. Each strip has one line of murine anti-SARS coronavirus monoclonal antibody on the test line, and one of biotin coupled to bovine protein on the positive control line. Murine and Leporine anti-SARS coronavirus and anti-biotin monoclonal antibodies conjugated to detector reagents are bound in the sample delivery area. | | Extraction Reagent | 30 single use reaction tubes, each with 325 µL extraction reagent and having an integral dispensing tip | Detergent solution with less than 0.1% sodium azide (preservative). | | Specimen sampling swabs | 30 sterile, single use specimen sampling swabs | For sample collection and transfer. | | SARS-CoV-2 (+) Control Swab | 1 each – individually wrapped for single use | Non-infectious, recombinant viral protein antigen with less than 0.1% sodium azide | | SARS-CoV-2 (–) Control Swab | 1 each – individually wrapped for single use | Buffer with less than 0.1% sodium azide. | | Assay documentation | Instructions for use  Quick reference instruction card    Nasal sampling instructions |  |   Materials Required but not provided:   * BD Veritor™ Plus Analyzer (Cat. No. 256066) * Timer * tube rack for specimens * any necessary personal protective equipment   Optional Equipment:   * BD Veritor InfoScan Module (Cat. No. 256068) * USB Printer cable for BD Veritor Plus Analyzer (Cat. No. 443907) * Epson Printer model TM-T20 II * BD Veritor Plus Connect (contact BD Technical Services for details)   **Kit Storage and Stability:**  Kits may be stored at 2–30 °C. DO NOT FREEZE. Reagents and devices must be at room temperature (15–30 °C) when used for testing. |
| **Specimen Collection and Handling:** | Acceptable specimens for testing with this kit include nasal swab specimens obtained by the dual nares collection method. It is essential that correct specimen collection and preparation methods be followed. Specimens obtained early during symptom onset will contain the highest viral titers; specimens obtained after five days of symptoms are more likely to produce negative results when compared to an RT-PCR assay. Inadequate specimen collection, improper specimen handling and/or transport may yield a falsely negative result; therefore, training in specimen collection is highly recommended due to the importance of specimen quality for generating accurate test results. |
|  | **Nasal Swab Specimen Collection**  1. The BD Veritor System Kit includes swabs for nasal specimen collection.  2. Insert the swab into one nostril of the patient. The swab tip should be inserted up to 2.5 cm (1 inch) from the edge of the nostril. Roll the swab 5 times along the mucosa inside the nostril to ensure that both mucus and cells are collected.  3. Using the same swab, repeat this process for the other nostril to ensure that an adequate sample is collected from both nasal cavities.  4. Withdraw the swab from the nasal cavity. The sample is now ready for processing using the BD Veritor System SARS-CoV-2 kit.  **DOs and DON’Ts of Sample Collection**   * Do collect sample as soon as possible after onset of symptoms. * Do test sample immediately. * Use only swabs provided with the kit. * Refer to: Interim Guidelines for Collecting, Handling and Testing Clinical Specimens from persons for COVID-19 at https://www.cdc.gov/coronavirus/2019-ncov/lab/guidelines-clinical-specimens.html |
| **Specimen Transport and Storage:** | Freshly collected specimens should be processed as soon as possible, but no later than one hour after specimen collection. It is essential that correct specimen collection and preparation methods be followed. |
| **Procedure:** | Reagents, specimens and devices must be at room temperature (15–30 °C) for testing.  **This BD Veritor System assay kit is only intended for nasal swab specimens that are collected and tested directly (i.e., swabs that have NOT been placed in transport media).** The kit includes a pre-diluted processing reagent in a ready to use “unitized” tube. This kit IS NOT INTENDED for testing liquid samples such as wash or aspirate samples or swabs in transport media as results can be compromised by over dilution.  **Getting ready to test**  The following steps assume that the BD Veritor Plus Analyzer is ready to use. To choose or change any BD Veritor Plus Analyzer settings, see the BD Veritor Plus Analyzer Instructions for Use, section 4.7. A printer is not necessary to display results. However, if your facility has chosen to connect the BD Veritor Plus Analyzer to a printer, check that the BD Veritor Plus Analyzer is plugged into a power source, paper supply is adequate and any necessary network connections are enabled before testing.  ***Freshly collected specimens should be processed within 1 hour.*** |
|  | **Procedure for Nasal Swabs or control swabs:**  Step 1:   * Remove one extraction reagent tube/tip and one BD Veritor System test device from its foil pouch immediately before testing. * Label one test device and one extraction reagent tube for each specimen or control to be tested. * Place the labeled extraction reagent tube(s) in a rack in the designated area of the workspace |
|  | **Process the /specimen or Control Swab**  Step 2:   * Remove and discard the cap from the extraction reagent tube.   Step 3:   * Insert the swab into the tube and plunge the swab up and down in the fluid for a minimum of 15 seconds, taking care not to splash contents out of the tube.   Step 4:   * Remove the swab while squeezing the sides of the tube to extract the liquid from the swab.   Step 5:   * Press the attached tip firmly onto the extraction reagent tube containing the processed sample (threading or twisting is not required). Mix thoroughly by swirling or flicking the bottom of the tube.   ***Note: Do not use tubes or tips from any other product, including other products from BD or other manufacturers.***  **After processing the swab in the extraction reagent, the sample should be analyzed within 30 minutes.** |
|  | After step 5, choose from the BD Veritor Plus Analyzer workflow option below before continuing to step 6:   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  | BD Veritor Plus Analyzer with the BD Veritor InfoScan module | | |  | BD Veritor Plus Analyzer in **Analyze Now** mode | BD Veritor Plus Analyzer in **Walk Away** mode | In **Analyze Now** mode | In **Walk Away** mode | | Instructions to section: | **A** | **B** | **C** | **D** | |
| **A** | Using a BD Veritor Plus Analyzer in “Analyze Now” mode:  Step 6A: Adding the specimen to the test device   * Invert the extraction reagent tube and hold it vertically (approximately one inch above the sample well). * Gently squeeze the ridged body of the tube, dispensing three (3) drops of the processed specimen into the sample well. * Excess volume remains for retesting if necessary.   ***Note: Squeezing the tube too close to the tip may cause leakage.***  Step 7A: Timing test development   * After adding the sample, allow the test to run for 15 minutes before inserting the test device into the BD Veritor PlusAnalyzer. * During incubation time, turn the BD Veritor Plus Analyzer on by pressing the blue power button once. * **NOTE**: If running test under laminar flow hood, cover test device to avoid inconsistent flow.   Step 8A: Using the BD Veritor Plus Analyzer   * The BD Veritor Plus Analyzer will complete a self-test before it is ready for use. After the self-test the display window shows INSERT TEST DEVICE OR DOUBLE-CLICK BUTTON FOR WALK AWAYMODE. * INSERT THE TEST DEVICE when the 15-minute assay development time is complete. * The status of the assay analysis process appears in the display window. Follow the on-screen prompts to complete the procedure. Do not touch the Instrument or remove the test device until the result appears. * When analysis is complete, the test result appears in the display window.   Step 9A: Record the Result before removing the test device.  ***ATTENTION: TEST Results are NOT maintained in the display window when the device is removed or if the BD Veritor Plus Analyzer is left unattended for more than 15 minutes (60 minutes if AC power adapter is connected).*** |
| **B** | Using the BD Veritor Plus Analyzer in “Walk Away” mode: with no barcode scanning module installed.  To use walk Away mode – connect the AC power adapter to the Analyzer and a power source.  Step 6B: Starting Walk Away Mode   * Turn the BD Veritor Plus Analyzer on by pressing the blue power button once * When the display window reads: “INSERT TEST DEVICE OR DOUBLE-CLICK FOR WALKAWAY MODE, Double-click the blue power button. * The display window reads “ADD SPECIMEN TO TEST DEVICEAND INSERT IMMEDIATELY”   Step 7B: Adding the specimen to the test device   * Invert the tube, holding it vertically (approximately one inch above the BD Veritor System test device sample well). * Gently squeeze the ridged body of the tube, dispensing three (3) drops of the processed specimen into the sample well. * Excess volume remains for retesting if necessary.   **NOTE: Squeezing the tube too close to the tip may cause leakage.**  **CAUTION: A countdown timer displays the time remaining for test insertion. Walk Away mode must be activated again when this timer expires. Confirm timer is visible and Walk Away mode is activated before inserting test device.**  Step 8B: Starting the development and reading sequence   * Insert the test device into the slot on the right side of theBD Veritor Plus Analyzer.   **The test device must remain horizontal to prevent spilling the specimen out of the sample well.**   * “DO NOT DISTURB TEST IN PROGRESS” appears in the display window. Automatic timing of the assay development, image processing and result analysis begins. * The display window shows the remaining analysis time.   **Do not touch the BD Veritor Plus Analyzer or remove the test device during this process. Doing so will abort the assay analysis.**  Step 9B: Record the Result   * When analysis is complete, the test result appears in the display window. Record the result and discard the test device appropriately.   ***ATTENTION: TEST Results are NOT maintained in the display window when the device is removed or if the BD Veritor Plus Analyzer is left unattended for more than 15 minutes (60 minutes if AC power adapter is connected).*** |
| **C** | Using the BD Veritor Plus Analyzer in “Analyze Now” mode with the BD Veritor InfoScan module installed.  Step 6C: Adding the specimen to the test device   * Invert the extraction reagent tube and hold it vertically (approximately one inch above the sample well). * Gently squeeze the ridged body of the tube, dispensing three (3) drops of the processed specimen into the sample well. * Excess volume remains for retesting if necessary.   **NOTE: Squeezing the tube too close to the tip may cause leakage**  Step 7C: Timing development   * Allow the test to develop for 15 minutes.   CAUTION: incorrect results may occur if development time is less than 15 minutes. Some lines may appear on the device sooner. Do not read device visually.   * If running the test in a laminar flow hood or in an area with heavy ventilation, cover test device to avoid inconsistent flow.   Step 8C: Using the BD Veritor Plus Analyzer  During the incubation time, turn on the BD Veritor Plus Analyzer by pressing the blue button once.  The display window briefly shows “SCAN CONFIG BARCODE.” This is an opportunity to change the configuration of the BD Veritor Plus Analyzer. Ignore this message and postpone this process when an assay is awaiting analysis. Please refer to the BD Veritor Plus Analyzer Instructions for Use for configuration steps.   * When assay development time is complete and the BD Veritor Plus Analyzer display window reads “INSERT TEST DEVICE OR DOUBLE-CLICK FOR WALKAWAY MODE”, insert the BD Veritor System SARS-CoV-2 device into the slot on the right side of the BD Veritor Plus Analyzer.   Step 9C: Using the barcode scanner   * Follow the prompts on the display screen to complete any required barcode scans of: * OPERATOR ID * SPECIMEN ID and/or * KIT LOT NUMBER * Prompts for each scanning step appear in the display window for only 30 seconds. Failure to complete scans during that time will cause the BD Veritor Plus Analyzer to default to the beginning of step 8C. To restart this step, remove and reinsert the test device to initiate a new reading sequence. * Move barcodes slowly toward the window until a confirmation tone sounds. The scanned barcode value appears in the next display window. * The BD Veritor Plus Analyzer can record the Kit Lot Number and expiration date in the test record but does not restrict the use of expired or inappropriate reagents. Management of expired materials is the responsibility of the user.   After required scans are completed, the BD Veritor Plus Analyzer displays a countdown timer and test analysis begins.   * Do not touch the BD Veritor Plus Analyzer or remove the test device during this process. Doing so will abort the assay analysis. * When analysis is complete a result appears in the display window. If configured to display, the specimen ID barcode value also appears. If a printer is connected, specimen ID and result are automatically printed.   If a printer is not connected, record the result before removing the assay device.  ***ATTENTION: TEST Results are NOT maintained in the display window when the device is removed or if the BD Veritor Plus Analyzer is left unattended for more than 15 minutes (60 minutes if AC power adapter is connected).***  Step 10C: Remove the test device   * Remove and then discard the test device appropriately. The display will show “INSERT TEST DEVICE OR DOUBLE-CLICK BUTTON FOR WALK AWAY MODE” to indicate the BD Veritor Plus Analyzer is ready to perform another test.   If the BD Veritor Plus Analyzer is connected to an LIS, a steady ENVELOPE symbol will appear to indicate that results are awaiting transmission. If a network connection is not detected while the ENVELOPE symbol is still displayed, the BD Veritor Plus Analyzer will queue all untransmitted results and attempt to transmit them when reconnected. If it is powered off during this time, it will attempt to transmit as soon as power is restored, and connection is re-established. A flashing envelope indicates that data are in the process of being transmitted. |
| **D** | Using the BD Veritor Plus Analyzer in “Walk Away” mode with the BD Veritor InfoScan module installed.  To use Walk Away mode – connect the AC power adapter to the BD Veritor Plus Analyzer and a power source.  Step 6D: Starting Walk Away mode   * Turn on the BD Veritor Plus Analyzer by pressing the blue power button once. The display window will briefly show “SCAN CONFIG BARCODE”. This is an opportunity to change the configuration of the BD Veritor Plus Analyzer. Please refer to the BD Veritor Plus Analyzer Instructions for Use for configuration steps. Ignore this message and postpone this process when an assay is awaiting analysis. * When the display window reads: INSERT TEST DEVICE OR DOUBLE-CLICK FOR WALK AWAY MODE, double -click the blue power button.   Step 7D: Using the barcode scanner   * Follow the prompts on the display screen to complete any required barcode scans of: * OPERATOR ID * SPECIMEN ID and/or * KIT LOT NUMBER * Prompts for each scanning step appear in the display window for only 30 seconds. Failure to complete scans during that time will cause the BD Veritor Plus Analyzer to default to the beginning of step 8C. To restart this step, remove and reinsert the test device to initiate a new reading sequence. * Move barcodes slowly toward the window until a confirmation tone sounds. The scanned barcode value appears in the next display window. * The BD Veritor Plus Analyzer can record the Kit Lot Number and expiration date in the test record but does not restrict the use of expired or inappropriate reagents. Management of expired materials is the responsibility of the user   Step 8D: Adding the specimen to the test device   * When the display window reads: ADD SPECIMEN TO TEST DEVICE AND INSERT IMMEDIATELY: * Invert the tube, holding it vertically (approximately one inch above theBD Veritor System SARS-CoV-2 device sample well). * Gently squeeze the ridged portion of the tube, dispensing three (3) drops of the processed specimen into the sample well. * Excess volume remains for retesting if necessary.   **NOTE: Squeezing the tube close to the tip may cause leakage.**  **CAUTION:A countdown timer displays the time remaining for test insertion. WalkAway mode must be activated again when this timer expires. Confirm timer is visible and Walk Away mode is activated before inserting test device**.  Step 9D: Starting the development and reading sequence   * Insert the test device into the slot on the right side of the BD Veritor Plus Analyzer.The test device must remain horizontal to prevent spilling the specimen out of the sample well. * “DONOTDISTURBTEST INPROGRESS” appears in the display window. automatic timing of the assay development, image processing and result analysis begins. * The display window shows the remaining analysis time   **Do not touch the BD Veritor Plus Analyzer or remove the test device during this process. Doing so will abort the assay analysis.**   * When analysis is complete, a result appears in the display window. If configured to display, the Specimen ID barcode value also appears. If a printer is connected, specimen ID and result are automatically printed.   **If a printer is not connected, record the result before removing the assay device.**  ***ATTENTION: TEST Results are NOT maintained in the display window when the device is removed or if the BD Veritor Plus Analyzer is left unattended for more than 15 minutes (60 minutes if AC power adapter is connected).***  Step 10D: Removing the test device   * Remove and then discard the test device appropriately. The display will show INSERT TESTDEVICE OR DOUBLE-CLICK BUTTON FOR WALK AWAY MODE to indicate the BD Veritor Plus Analyzer is ready to perform another test. Note that the BD Veritor Plus Analyzer returns to Analyze Now mode at the conclusion of each read sequence.   If the BD Veritor Plus Analyzer is connected to an LIS, a steady ENVELOPE symbol will appear to indicate that results are awaiting transmission. If a network connection is not detected while the ENVELOPE symbol is still displayed, the BD Veritor Plus Analyzer will queue all untransmitted results and attempt to transmit them when reconnected. If it is powered off during this time, it will attempt to transmit as soon as power is restored, and connection is re-established. A flashing envelope indicates that data are in the process of being transmitted. |
| Result Interpretation | The BD Veritor Plus Analyzer (provided separately) must be used for interpretation of all test results. Operators should not attempt to interpret assay results directly from the test strip contained within the BD Veritor assay device.   |  |  | | --- | --- | | Display | Interpretation | | CoV2: + | Positive Test for SARS-CoV-2 (antigen present) | | CoV2: - | Presumptive Negative Test for SARS-CoV-2 (no antigen detected) | | CONTROL INVALID | Test Invalid.\* Repeat the test. |   \*Invalid Test – If the test is invalid, the BD Veritor System Instrument will display “CONTROL INVALID” and the test or control must then be repeated. If the “CONTROL INVALID” reading recurs, contact BD. |
| **Quality Control** | Each BD Veritor System SARS-CoV-2 test device contains both positive and negative internal/procedural controls:   * The internal positive control line validates the immunological integrity of the device, proper reagent function, and assures correct test procedure. * The membrane area surrounding test lines functions as a background check on the assay device.   The BD Veritor System Instrument evaluates the positive and negative internal/procedural controls after insertion of each test device. The BD Veritor Plus Analyzer prompts the operator if a quality issue occurs during assay analysis. Failure of the internal/procedural controls will generate an invalid test result. NOTE: The internal controls do not assess proper sample collection technique.  **EXTERNAL POSITIVE AND NEGATIVE CONTROLS**  Positive and Negative control swabs are supplied with each kit. These controls provide additional quality control material to assess that the test reagents and the BD Veritor System Instrument perform as expected. Prepare kit control swabs and test using the same procedure as used for patient specimens.  BD recommends controls be run once for:   * each new kit lot, * each new operator, * as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.   **If the kit controls do not perform as expected, do not report patient results. Contact BD Technical Services at 1.800.638.8663.** |
| **Reporting of Results:** | **Positive Test** – Positive for the presence of SARS-CoV-2 antigen. Positive results indicate the presence of viral antigens, but clinical correlation with patient history and other diagnostic information is necessary to determine infection status. Positive results do not rule out bacterial infection or co-infection with other viruses. The agent detected may not be the definite cause of disease. Laboratories within the United States and its territories are required to report all positive results to the appropriate public health authorities.  **Negative Test** – Negative results are presumptive.  Negative test results do not preclude infection and should not be used as the sole basis for treatment or other patient management decisions, including infection control decisions, particularly in the presence of clinical signs and symptoms consistent with COVID-19, or in those who have been in contact with the virus. It is recommended that these results be confirmed by a molecular testing method, if necessary, for patient management.  **Control Invalid** – Do not report results. Repeat the test.  Report all test results to the ordering practitioner and State Hygienic Lab/The Iowa Department of Public Health. |
| **Limit of Detection (LOD)** | See Product Insert Sheet |
| **Performance Characteristics:** | See Product Insert Sheet |
| **Limitations:** | * Clinical performance was evaluated with frozen samples, and test performance may be different with fresh samples. * Users should test specimens as quickly as possible after specimen collection. • Positive test results do not rule out co-infections with other pathogens. * Results from the BD Veritor System for Rapid Detection of SARS-CoV-2 test should be correlated with the clinical history, epidemiological data, and other data available to the clinician evaluating the patient. * A false-negative test result may occur if the level of viral antigen in a sample is below the detection limit of the test or if the sample was collected or transported improperly; therefore, a negative test result does not eliminate the possibility of SARS-CoV-2 infection. * The amount of antigen in a sample may decrease as the duration of illness increases. Specimens collected after day 5 of illness are more likely to be negative compared to a RT-PCR assay. * Failure to follow the test procedure may adversely affect test performance and/or invalidate the test result. * The contents of this kit are to be used for the qualitative detection of SARS-CoV-2 antigens from nasal swab specimens only. 11 * The BD Veritor System for Rapid Detection of SARS-Cov-2 can detect both viable and non-viable SARS-CoV-2 material. The BD Veritor System for Rapid Detection of SARS-CoV-2 performance depends on antigen load and may not correlate with other diagnostic methods performed on the same specimen. * Negative test results are not intended to rule in other non-SARS-CoV-2 viral or bacterial infections. * Positive and negative predictive values are highly dependent on prevalence rates. Positive test results are more likely to represent false positive results during periods of little/no SARS-CoV-2 activity when disease prevalence is low. False negative test results are more likely when prevalence of disease caused by SARS-CoV-2 is high. * This device has been evaluated for use with human specimen material only. * Monoclonal antibodies may fail to detect, or detect with less sensitivity, SARS-CoV-2 viruses that have undergone minor amino acid changes in the target epitope region. * The performance of this test has not been evaluated for use in patients without signs and symptoms of respiratory infection and performance may differ in asymptomatic individuals. * Sensitivity of the test after the first five days of the onset of symptoms has been demonstrated to decrease as compared to a RT-PCR SARS-CoV-2 assay. * Negative results should be treated as presumptive and confirmed with an FDA authorized molecular assay, if necessary, for clinical management, including infection control. * The BD Veritor System kit was validated with the Copan Standard and Copan Minitip swabs. Use of alternative swabs may result in false negative results. * Specimen stability recommendations are based upon stability data from influenza testing and performance may be different with SARS-CoV-2. Users should test specimens as quickly as possible after specimen collection, and within one hour after specimen collection. * The validity of the BD Veritor System for Rapid Detection of SARS-CoV-2 test has not been proven for identification/confirmation of tissue culture isolates and should not be used in this capacity. |
| **Conditions of Authorization for the Laboratory** | See Product Insert Sheet |
| **References:** | Package Insert, BD Veritor System, Becton, Dickinson and Company, Sparks, Maryland 21152, June 2020. |

