Single Test-Requires 1-2 people

Equipment Required

1. PPE- gown, surgical mask, face shield, gloves and hand sanitizer
2. BD Veritor analyzer (charged or plugged in)
3. Nasal swab
4. Extraction reagent tube (labelled with two identifiers) and holder
5. Timer
6. Test device (labelled with two identifiers)
7. Biohazardous waste disposal
8. All test reagent strips, and reagent tubes, should be checked to ensure they have not expired.
9. The analyzer should have a control sample taken each time a new box of equipment is opened. One positive control and one negative control. The control kits should be stored with the nasal swabs.

Tip: All BC Veritor equipment must be stored and used at room temperature

Equipment and testing set up

1. Ensure BD Veritor is charged or plugged in and sitting on a flat stable surface.
2. Ensure that the work space is not below 15 °C or above 30 °C
3. Run a quality control check if required (see Quality Control section)
4. Check expiration dates on swabs, analyzer tubes and test devices
5. Turn analyzer on to let it do a self-test
6. Ensure the work-space is ready to receive people with physical distancing, sufficient PPE, Disinfectant and recording materials.
7. Ensure the greeter/screener has a sharpie pen to put the year and initials of each person being tested on the analyzer tubes, and test device
8. If batch testing ensure you have enough space to lay out at least 2-10 test devices
9. Have your timer close by

Personal Protective Equipment

Full PPE (gloves, gown, medical masks and eye protection) is required for the Tester and the Analyser throughout the testing process and disposal process.

- The person collecting samples should change gloves and perform hand hygiene after each swab.
- The person performing the test should change gloves and perform hand hygiene after handling each extraction tube.

Deep Nasal Specimen Collection

1. Tester to Identify the person and ensure that test device and reagent tube have the same 2 identifiers
2. Tester peel back and unwrap nasal swab
3. Ask the person to lift their face shield and lower their mask just below the nose
4. Ask the person to tilt their head back 70 °
5. Insert the nasal swab into first nostril 1 full inch and rotate 5 times, then repeat in the other nostril
6. Ask the person to pull their mask back up over their nose and lower their face shield back over their face

7. Allow the person to move into the waiting area

Prepare sample

1. Tester to put nasal swab into the reagent tube and plunge carefully up and down 15 times (do not splash)
2. Squeeze the sides of the reagent tube together as the nasal swab is removed to collect as much fluid as possible
3. Mix thoroughly by gently swirling the reagent tube or by flicking the bottom of the tube
4. Close lid securely and discard nasal swab into the biohazardous waste.

Tip: The prepared sample must be analyzed within 30 minutes

Analyze sample (to be completed by Tester or if sufficient resources by another individual = analyzer)

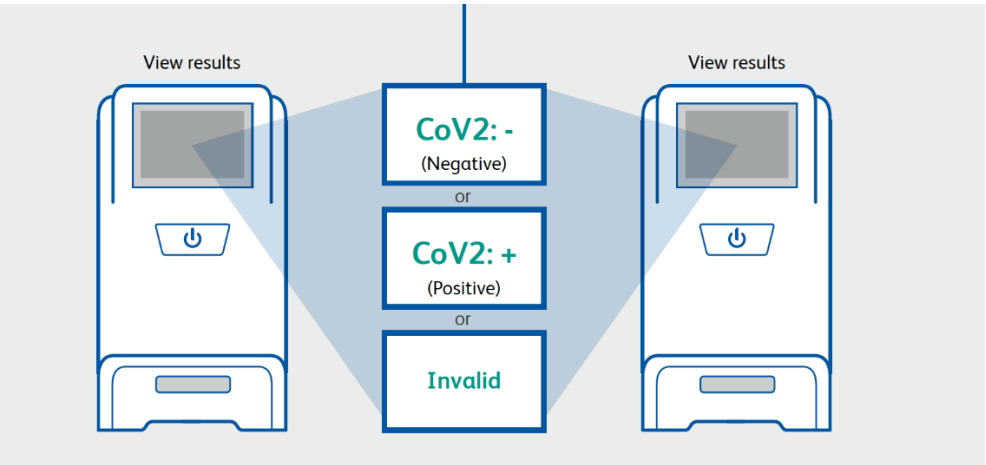
1. Ensure that test reagent strip has the same two identifiers as the reagent tube
2. Invert the reagent tube and hold it about 1 inch above the testing well
3. Squeeze the rigid body of the reagent tube and allow 3 drops to enter into the well.

Tip: Do not squeeze too close to the tip to prevent spillage

4. Set timer to 15 minutes and wait to analyze the assay.
5. Just before the timer goes off, turn the BD Veritor on and wait for the machine to complete its self-test before inserting the strip
6. Once the 'insert test device' message appear, insert the test strip into the analyzer and wait

Tip: Keep the analyzer on a flat surface and do not move it

7. Read and record results ensuring the two identifiers on the test strip match the name of the person on the list



Taken from the BD Veritor Infographic (2020)

Option for walk away mode

1. Instead of using a timer for a single sample, you can use the 'walk-away now' mode. **The BD Veritor must be fully charged or plugged in.**
2. After the sample has been prepared and test strip is prepared, turn the BD Veritor on and wait for the machine to complete its self-test before inserting the strip
3. Once the 'insert test device' message appears, click the blue button **again** to switch to the walk away now mode.
4. Insert the prepared test strip and leave the analyzer undisturbed until test results have been completed.
5. Read and record results as above

Batch Testing (2-10 samples at a time)- Requires 2 people for best accuracy

Equipment Required

1. PPE- gown, surgical mask, face shield, gloves and hand sanitizer
2. BD Veritor analyzer (charged or plugged in)
3. Up to 10 Nasal swabs
4. Up to 10 Extraction reagent tubes (labelled with two identifiers) and holder
5. Two timers
6. Up to 10 Test devices (labelled with two identifiers)
7. Biohazardous waste disposal
8. All test reagent strips, and reagent tubes, should be checked to ensure they have not expired.
9. The analyzer should have a control sample taken each time a new box of equipment is opened. One positive control and one negative control. The control kits should be stored with the nasal swabs.

Tip: All BD Veritor equipment must be stored and used at room temperature

Deep Nasal Specimen Collection

1. Tester to Identify the person and ensure that test device and reagent tube have the same 2 identifiers
2. Tester peel back and unwrap nasal swab
3. Ask the person to lift their face shield and lower their mask just below the nose
4. Ask the person to tilt their head back 70 degrees
5. Insert the nasal swab into first nostril 1 full inch and rotate 5 times, then repeat in the other nostril
6. Ask the person to pull their mask back up over their nose and lower their face shield back over their face
7. Allow the person to move into the waiting area

Prepare sample

1. Tester to put nasal swab into the reagent tube and plunge carefully up and down 15 times (do not splash)
2. Squeeze the sides of the reagent tube together as the nasal swab is removed to collect as much fluid as possible
3. Mix thoroughly by gently swirling the reagent tube or by flicking the bottom of the tube
4. Close lid securely and discard nasal swab into the biohazardous waste.
5. Put the reagent tube in a holder for processing later

Repeat grey highlighted areas for up to 9 more samples as long as they can be obtained within a 30-minute window

Analyze sample must be a dedicated person and not the tester for batches

1. Ensure that test reagent strip has the same two identifiers as the reagent tube
2. Invert the reagent tube and hold it about 1 inch above the testing well
3. Squeeze the rigid body of the reagent tube and allow 3 drops to enter into the well.
4. Set the first timer to 15 minutes and set a second timer for 30 seconds
5. When the second timer (30 seconds) goes off, fill the 2nd reagent strip well from the corresponding identify reagent tube, and set the second time for 30 seconds.
6. Repeat, the grey highlighted steps every 30 seconds until the batch is complete (should up to about 5 minutes)
7. Just before the first 15-minute timer goes off, turn the BD Veritor on and wait for the machine to complete its self-test before inserting the strip
8. Once the 'insert test device' message appear, insert the first test strip into the analyzer and wait for reading
9. Read and record results ensuring the two identifiers on the test strip match the name of the person on the list
10. Set time to 30 seconds before inserting the second reagent strip. Wait for the reading and then record.
11. Analyze the batch in 30 second intervals until the batch is complete

Tip: It would be helpful to have two people confirm that the test reagent strip identifiers match the list of attendees correctly.

Quality control

Each BD Veritor System SARS-CoV-2 test device contains both positive and negative internal/procedural controls:

- 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 above
- BD recommends controls be run once for:

1. each new kit lot,
2. each new operator,

If the kit controls do not perform as expected, do not report patient results. Contact BD Technical Services at 1.800-638-8663.

Cleaning Analyser

- Follow manufacturer's cleaning instructions, routinely wipe down with a cloth dampened with the same disinfectant used for other surfaces or with alcohol swabs.

Biohazard Waste Disposal

Dispose of specimens, kits, and other contaminated materials carefully in an appropriate biohazard container

- As per the manufacturer's instructions dispose of all specimens, used extraction tubes (with dispensing nozzle closed), used test devices, and other potentially contaminated materials in a biohazard container as infectious waste, and to dispose of the biohazard container according to applicable local regulations.

Maintain a safe work area

- As per the manufacturer's instructions, avoid splashing or aerosol formation of specimen and buffer, as well as to clean up any potential spills thoroughly using an appropriate disinfectant. In addition, we advise to clean the work area using an appropriate disinfectant after each batch of testing.