

InSight V-CHEM: Testing a Sample

Sample Preparation

- Sample type - Serum, Lithium-Heparinised Whole blood or Plasma
- Sample Volume - 100ul per test panel
- Testing must be conducted within 60 minutes (at room temperature)
- To prevent haemolysis of the sample, do not refrigerate, freeze, or shake whole-blood sample.
- Plasma or serum can be stored at Room Temp for 5 hours prior to testing or up to 48 hours if stored at 2-8C

Rotor Preparation

- Rotors should be stored at 2-8C and can be used straight from the refrigerator without the need for warming
 - Avoid placing unopened reagent discs in temperatures greater than 25C (77F) for more than 48 hours.
1. Before using a reagent disc, carefully check the foil pouch for any damage. Tear open the package from the upper right side of the pouch.
 2. Remove the reagent disc gently with finger and thumb
 3. After removal use your other hand to hold the disc by the edge. **Avoid contact with disc surface where optical measurement takes place.**
 4. Check the reagent disc for any damage – do not use reagent discs that have been dropped or damaged.
 5. After opening the pouch, the disc **must be used within 20 minutes. Do not place the disc back in the refrigerator for later use.**
 6. Remove the foil tab from the rotor to release the diluent by pulling the tab at a 45° angle.

Dispensing the sample

1. Attach a new pipette tip to the end of the 100ul pipette provided. Do not touch the end of the tip.
2. Using your thumb push down the plunger on the top of the pipette to the stop position.
3. Immerse the pipette tip below the surface of the sample.
4. Slowly release the plunger to draw up the sample, avoid drawing in any air, as this will cause the disc to fail.
5. Remove the pipette from the sample tube.
6. Insert the pipette tip into the sample port (indicated by a red triangle) on the rotor
7. Keep the reagent disc level and hold the pipette at a 45-degree angle to the surface of the disc.
8. Gently push down the plunger at the top of the pipette to the stop position. All of the sample should have been expelled into the sample chamber. Keeping the plunger held down gently remove the pipette tip from the sample port. The plunger may now be released, remove the disposable tip from the pipette and discard the tip.
9. Press the **Analyse** icon on the touch screen
10. Select the sample type (whole blood, serum or plasma)
11. When indicated on the screen, Scan the QR code on the foil pack that the rotor came in
12. If using a QUAD rotor, the analyser will ask you to select the 4 parameters to be tested.
13. Hold a reagent disc that contains a sample by its edge and the disc kept level. Avoid touching the surface of the reagent disc. Place the disc into the drawer until it clicks, press **Close** to close the disc drawer.
14. Use the touch screen to enter the species and Patient ID
15. The fully automated analysis will now commence once the disc drawer closes
16. When the analysis is completed, the system will store the analysis results and display them on the screen.

To cancel a test in progress, press the X icon on the screen, the system will prompt for confirmation. **A reagent disc cannot be re used if a test has been cancelled.**

