

Element i+ Immunodiagnostic Analyzer





Cartridge Type/Calibration Information

Prior to running the first Element i+[®] Cartridge of a new lot number, the lot-specific calibration data must be loaded into the Element i+ Analyzer. A small USB flash drive is supplied with each box of cartridges. Figure 1

- 1. Insert the USB flash drive into any of the four USB ports located on the back of the analyzer. Figure 2
- 2. From the Home screen, touch 🗳.
- 3. From the Settings screen, touch Import Cartridge Types/Calibration Info, then touch Import Calibrations.
- 4. When the screen shows Completed Successfully, touch 🔷 and then remove the USB flash drive from the back of the analyzer and return it to the cartridge box.

NOTE: Retain lot-specific USB fash drives at least until all cartridges within a box are used.





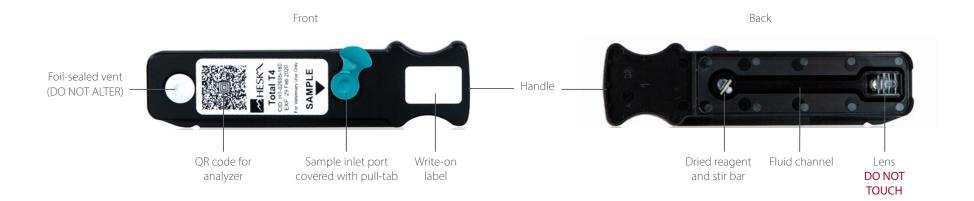








AVOID TOUCHING THE CARTRIDGE BOTTOM • THE ANALYZER READS THROUGH THE BOTTOM







Sample Collection and Handling

NOTE: Handle all samples and used materials as infectious waste. Wear gloves, glasses and other protective gear for safety.

Heska-Supplied Green Top (lithium heparin) Tubes (GTT)

- 1. Draw patient sample using a 22 gauge or larger needle.
- 2. Remove needle from syringe to fill a 0.5 mL or 1.5 mL GTT.
- 3. Fill sample tube.
 - 0.5 mL tube: Fill with at least 0.3 mL of sample (second line).
 - 1.5 mL tube: Fill with at least 1 mL of sample (second line).
 - Immediately invert the tube 5 to 10 times to ensure proper mixing of lithium heparin and sample.
- 4. Spin sample in Heska-provided centrifuge for 5 minutes.

NOTE: EDTA (Purple Top Tube) plasma required for Nu.Q® testing. See below for more details.

Standard Green Top Tubes, Purple Top Tubes or Red Top Tubes for Harvesting Plasma or Serum

- 1. Draw patient sample using a 22-guage or larger needle.
 - For Nu.Q[®] testing, place whole blood sample into EDTA Purple Top Tube (PTT) and spin at "blood" (1600xg or higher) setting for 10 minutes within 1 hour of collection.
 - For all other Element i+ tests, process sample as normal for either lithium heparim plasma or serum samples
 - RTT serum samples: Allow 15–20 minutes to clot prior to centrifugation.
- 2. Transfer plasma or serum using Heska-provided mini-pipette.
 - For Nu.Q tests, use Heska-supplied yellow, 50 uL mini-pipette.
 - For all other Element i+ tests, use Heska-supplied blue, 100 μL mini-pipette.

NOTE: Avoid use of serum separator tubes (tiger top) as separator gel may impact test results for certain assays.

Running a Test

- 1. Obtain a serum or plasma sample.
 - For Nu.Q[®] tests, EDTA (Purple Top Tube) plasma is required.
 - All other Element i+ tests are compatible with serum or lithium heparin plasma.
- 2. On the main screen, touch Worklist or Manual Test. Figure 3
- - In Manual Mode, enter sample information in the required fields.









Running a Test

Open the pouch by tearing at the notch. Carefully remove the cartridge by the 4. handle and place it on a flat surface. Figures 5 & 6

NOTE: Do not touch the bottom of the cartridge.

quick steps quide

NOTE: If the cartridge was refrigerated, allow to warm to room temperature for at least 15 minutes before opening the pouch.

NOTE: Cartridge must be used within 1 hour of removal from pouch.

With the cartridge flat on the bench, remove the pull-tab from the sample inlet 5. port and discard. Use the cartridge handle to steady the flat cartridge while removing the pull-tab. Figure 7

NOTE: Cartridge must be used within 15 minutes of removing pull-tab.

NOTE: Instructions for T4 ONLY (Other tests skip to 7). 6.

Dilute patient sample using supplied Heska T4 Diluent.

- a. Use supplied 100 µl fixed volume mini-pipette (blue) to aspirate 100 µl of serum or plasma sample.
- b. Flick or tap the Heska T4 Diluent tube to ensure there is no liquid adhering to the Diluent tube inner cap surface.
- c. Dispense the full 100 µl patient sample into the Diluent tube. Ensure proper mixing by then aspirating and dispensing 5x using the same pipette tip.
- d. Aspirate 100 µl of the diluted sample using the mini-pipette and same pipette tip, insert the pipette tip into the T4 cartridge sample inlet port hole, and dispense the full amount into the hole (Skip to 8).





Figure 5







quick steps guide

- 7. Affix a tip to the fixed volume mini-pipette required for the desired test. Aspirate sample, insert the pipette tip into the inlet port hole, and dispense the full sample amount into the hole. Figure 8
 - For Nu.Q[®] tests, the yellow 50 μL mini-pipette is required.
 - All other Element i+ tests require the blue 100 μ L mini-pipette.
- 8. Touch \bigcirc on the Prepare Sample screen to open the analyzer door. Figure 9
 - Insert the cartridge until you feel a click and hear a beep. Figures 10 & 11

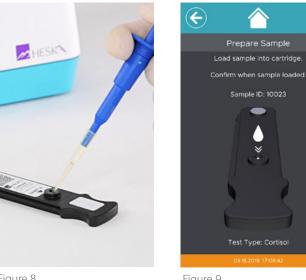


Figure 8

Figure 9





Figure 10





The test will run automatically. 9.

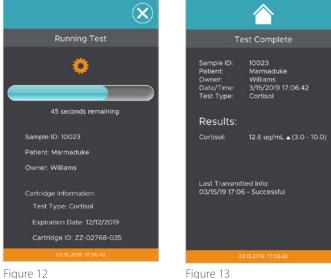
A status bar and countdown timer will display on the screen and the indicator light on the front of the analyzer will blink to indicate a test is running. Figure 12

NOTE: To cancel during the run, touch **X** at the upper right of the screen.

- 11. Upon test completion, patient results will display on the screen.
 - Touch 👉 to exit results screen. Figure 13
 - The screen will provide an indication when it is safe to remove the used cartridge. Figure 14

NOTE: Do not attempt to remove cartridge before signaled by analyzer.

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For further assistance, please call Heska's Customer Support Services

US 800 464 3752 www.heska.com CA 866 382 6937 www.heskavet.ca AU 1300 437 522 www.heska.com.au

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