qs quick steps guide

element HT5
Veterinary Hematology Analyzer

NOTE: For access to the full user manual for this product, please visit www.heska.com/productmanuals.

Getting Started

NOTE: For Administrative accessibility, enter USER ID: Admin and Password: Admin to log in.

1. Resume from standby.
   a. Screen shows "Touch screen to access menu".
   b. Once out of screen-saver mode, analyzer shows "Standby. Touch aspirate key to exit" in bottom left of screen.
   c. Touch **ASPIRATE** key (behind sample probe) to exit Standby. Analyzer displays "Exiting standby status…"
2. Run probe cleanser, if prompted. (Figure 1)
   a. Present Probe Cleanser to sample probe and aspirate by touching **ASPIRATE** key. (Approx. 2 minutes)
3. Run background:
   a. From the Sample Analysis tab, touch **NEXT SAMPLE**. (Lower screen)
   b. If required, enter Sample and/or Patient ID.
   c. Access Species pull-down, select [Background].
   d. Touch **OK**. Confirm that Background is listed next to species near top of screen.
   e. Touch **ASPIRATE** key to run Background.
   f. Confirm all results are within acceptable limits. (By parameter)
      WBC ≤ 0.30 RBC ≤ 0.03 HGB ≤ 0.1 HCT ≤ 0.5 PLT ≤ 10
4. Run quality control:
   a. From QC tab, confirm File Number represents current lot number being used, and is not expired.
   b. Never use an open vial longer than recommended by the manufacturer (14 days) or subject any vial to excessive heat or agitation.
   c. Make sure QC is properly mixed and has been warmed to room temperature for 15–20 minutes.
   d. Present QC vial to sample probe; touch **ASPIRATE** key.
   e. Confirm all results are within limits.

Figure 1

Sample Collection and Handling

1. Correct sample processing is the most important step in obtaining accurate results on an automated hematology system.
2. Sample guidelines:
   a. Use 22-gauge or larger size needle to prevent hemolysis.
   b. Immediately transfer blood into an EDTA anti-coagulated (purple-top) collection tube.
      i. Remove stopper from tube and needle from syringe to fill –OR–
      ii. Push needle through stopper and allow vacuum to fill tube. Do not press on syringe plunger.
      iii. Fill at least 1/2 full.
   c. Invert tube 8 to 10 times to properly mix sample.
   d. Check for clots and/or fibrin with 2 wooden applicator sticks.
   e. Analyze sample as soon as possible after draw. Samples should be analyzed no later than 4 hours after draw.
   f. If sample will not be analyzed immediately, mix blood sample for at least 1 minute prior to analysis.

Sample Analysis

1. Touch **NEXT SAMPLE** or **WORKLIST**.
2. Enter or confirm patient information such as Sample/Patient ID, Species, Gender, *etc.*; Touch **OK**. Next Sample window appears (Figure 2), touch **OK**.
3. Introduce sample to aspiration probe and touch **ASPIRATE** key. Analyzer beeps and retracts sample probe when patient sample (15 µL) has been aspirated.
4. Review results:
   a. On-screen values, scatter plots, histograms and reference range flags plus sample pathology messages, if present.
   b. Touch **SCATTER PLOT** to view 2 additional scatter plots.
   c. Touch **WBC** column to view reference ranges; Touch **RBC/PLT** column to view reference ranges.
   d. Review results.

Figure 2

Entering a New Control Lot

1. Assigning values for new lots of QC:
   On computer:
   a. Download current control lot number information onto a USB memory stick from www.Heska.com.
      Click **Products**. Under Lab Diagnostics, click **Element HT5**. Scroll down and under Technical Details & Downloads, click **Resources** tab.
   b. Right click on **Normal-Control** and select "Save link as…" or "Save target as…" and save the file to a USB memory stick.
   On analyzer:
   c. Select QC tab; insert USB memory stick into open USB port on analyzer.
   d. Select [Setup] ▶ [New] ▶ [Import File], and allow files to load.
   e. Select desired control file to import and touch OK.
   f. Select [Return] ▶ Save? [Yes].

Maintenance and Reagents

1. Daily probe cleansing maintenance. (Figure 1)
   a. Analyzer will prompt for probe cleansing maintenance based on a 24 hour interval from the last probe cleansing cycle. (Approx. 2 minutes)
   b. User can defer probe cleansing until a more convenient time.
      NOTE: Probe Cleansing maintenance can be deferred a maximum of 2 times.
   c. Present Probe Cleanser to sample probe and aspirate by touching **ASPIRATE** key.
2. Changing reagents.
   a. From Reagent Setup tab, touch **SETUP**.
   b. Scan barcode for reagent you are replacing and confirm Reagent Name, Exp Date and Volume are populated. Touch **APPLY**.
   c. If you are changing more than one reagent, touch **SETUP** again, scan barcode and touch **APPLY**.
   d. Once all reagent barcodes have been scanned and applied, touch **CLOSE**. Verify all reagents that were replaced are listed. Touch **OK**. The analyzer will prime systems with new reagent(s).

HESKA

For further assistance, please call Heska's Technical Support Services at 800.464.3752, option 3.