

**NOTE:** For access to the full user manual for this product, please visit [www.heska.com/productmanuals](http://www.heska.com/productmanuals).

## Getting Started

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

- Resume from standby.
  - Touch **ASPIRATE** key (behind sample probe) to exit Standby. Analyzer displays "Exiting standby status..."
- Run background:
  - From the **COUNT** tab, touch **NEXT SAMPLE**. Figure 1
  - For Sample ID, enter BG for background.
  - Access Species pull-down, select [Dog].
  - Touch **OK**. Confirm that Dog is listed next to species near top of screen.
  - Touch **ASPIRATE** key to run Background.
  - Confirm all results are within acceptable limits. (By parameter)  
 $WBC \leq 0.1$      $RBC \leq 0.02$      $HGB \leq 0.1$      $HCT \leq 0.5$      $PLT \leq 5$
- Run quality control:
  - From QC tab, confirm File Number represents current lot number being used, and is not expired.
  - Never use an open vial longer than recommended by the manufacturer (14 days) or subject any vial to excessive heat or agitation. Do not use blood rocker to mix control.
  - Make sure QC vial is properly mixed by inverting the vial 8–10 times and has been warmed to room temperature for 15–20 minutes.
  - Present QC vial to sample probe; touch **ASPIRATE** key. Remove QC vial once beep is heard and probe has retracted back into the analyzer.
  - Confirm all results are within limits.

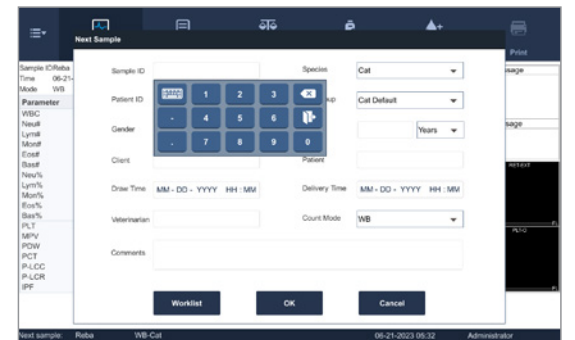


Figure 1

## Sample Collection and Handling

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

## Sample Analysis

- From the **COUNT** tab, touch **NEXT SAMPLE** or **WORKLIST**.
- Enter or confirm patient information such as Sample/Patient ID, Species, Gender, etc. Touch **OK**.
- Introduce sample to aspiration probe and touch **ASPIRATE** key. Analyzer beeps and retracts sample probe when patient sample (24 µL) has been aspirated.
- Review results:
  - On-screen values, scatter plots, histograms and reference range flags plus sample pathology messages and flags for abnormal cell morphology, if present.
  - Touch **SCATTER PLOT DIFF 3D** Scatterplot to view 3D image.
  - Touch **WBC** column to view WBC reference ranges; touch **RBC** column to view RBC reference ranges.
  - Review results.

## Entering a New Control Lot

- Assigning values for new lots of QC:
 

On computer:

  - Download current control lot number information onto a USB memory stick from [www.Heska.com](http://www.Heska.com). Click **Products**. Under Lab Diagnostics, click **Element HT5+**. Scroll down and under Technical Details & Downloads, click **Resources** tab.
  - Right click on **Normal-Control** or **Retic-Control** and select "Save link as..." or "Save target as..." and save the file to a USB memory stick.

On analyzer:

  - Insert USB memory stick into open USB port on analyzer.
  - Touch **QC ► SETUP ► NEW ► IMPORT FILE** and allow files to load.
  - Select desired control file to import and touch **OK**.
  - Verify correct control lot number has populated at the top. For RET controls, after touching OK, the type must change from BC-6D to BC-RET using the drop down menu next to TYPE.
  - Select [Return] ► Save? [Yes].

## Maintenance and Reagents

- Weekly, probe cleansing maintenance.
  - Analyzer will prompt for probe cleansing maintenance based on a 7 day interval from the last probe cleansing cycle. (Approx. 12 minutes)
  - User can defer probe cleansing until a more convenient time. **NOTE:** Probe Cleansing maintenance can be deferred a maximum of 2 times.
  - Present Probe Cleanser to sample probe and aspirate by touching **ASPIRATE** key.
- Changing reagents.
  - From Reagent Setup tab, touch and highlight the reagent(s) to be replaced. Then touch **SETUP**. Figure 2
  - Scan RFID for reagent you are replacing and confirm Reagent Name, Exp Date and Volume are populated. Touch **APPLY**.
  - If you are changing more than one reagent, touch **SETUP** again, scan RFID and touch **APPLY**.
  - Once all reagent RFID codes have been scanned and applied, touch **REPLACE**. Replace any reagent bottles necessary. Verify all reagents that were replaced are listed. Touch **OK**. The analyzer will prime systems with new reagent(s).

Reagent Name	Expiration Date	Open Date	Valid Days	Use before	Volume(µL)
DR EXILENT	11-29-2024	06-16-2023	90	09-13-2023	62.01%
LD LYSE	11-27-2024	06-16-2023	60	06-14-2023	63.70%
LH LYSE	11-29-2024	06-20-2023	60	06-18-2023	67.24%
SR Solution Reagent	11-29-2024	06-20-2023	90	06-17-2023	70.10%
DS EXILENT	11-27-2024	06-20-2023	60	06-18-2023	66.03%
FD DYE	10-26-2023	06-20-2023	60	06-18-2023	83.67%
FR DYE	11-24-2023	06-20-2023	90	06-17-2023	80.80%

Figure 2