Heska HT5 Quick Guide

Login Details

USER ID: Admin
Password: Admin

Daily Procedures

1. Resume from standby**.** Press **ASPIRATE** Key (behind sample probe) to exit standby. Analyser displays "Exiting Standby status…"
2. Run Probe Cleanser, if prompted. (Figure 1) Analyzer requires probe cleansing maintenance every 24 hours, or during analyser Shut-down procedure.
   a. **NOTE:** Probe cleansing maintenance can be deferred a maximum of 2 times before the analyser will prevent you from testing.
   b. Press [**Yes**]. Present Probe Cleanser to sample probe and aspirate by touching **ASPIRATE** key. (Approx. 2 minutes)

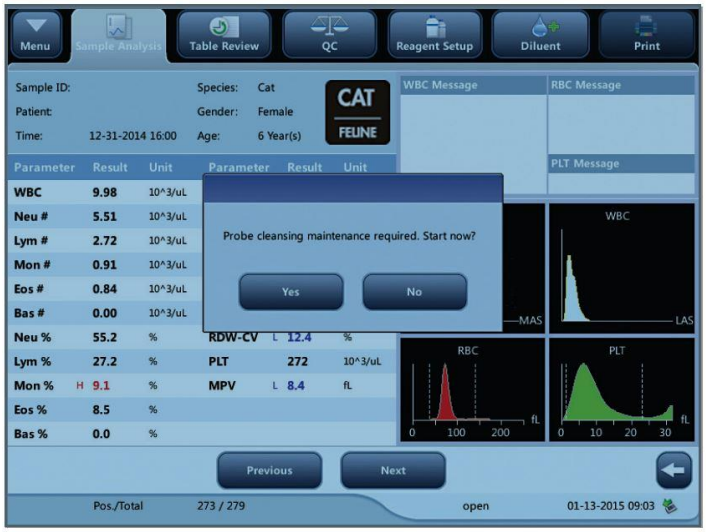

Figure 1

3. Run background
   a. Touch **SAMPLE ANALYSIS** tab. Touch **NEXT SAMPLE**
   b. Select Species 'drop-down' arrow and select [Background] as species
   c. Touch **OK**. Confirm that background is listed next to species near top of screen.
   d. Touch **ASPIRATE** key to run Background. (No sample required)
   e. Confirm all results are within acceptable limits.

-	**WBC ≤ 0.30**	**RBC ≤ 0.03**	**HGB ≤ 0.1**	**HCT ≤ 0.5**	**PLT ≤ 10**

Figure 2 – Example of background result passing

4. Run Quality Control
   a. Select QC tab, confirm File Number represents the current LOT number on QC sample vial. (e.g. BC2209BN)
   b. Never use a vial that has been opened for more than 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. Invert vial 8-10 times. Present QC vial to sample probe; touch **ASPIRATE** key.
   e. Confirm all results are within limits.
   f. Call Vepalabs on 1300 837 252 if results are not within limits.

Sample Collection and Handling

1. Correct sample processing is the most important step in obtaining accurate results on an automated haematology system
2. Sample guidelines:
   a. Use 22-gauge or larger size needle to prevent haemolysis
   b. Immediately transfer blood into an EDTA anti-coagulated (**purple top**) collection tube.
      i. Remove stopper from tube and needle from syringe. Hold the top of the syringe over tube and gently dispense blood into tube. Fill to tube fill line, or at least ½ tube.
      ii. Invert tube 8 to 10 times to properly mix blood and anticoagulant. If testing is delayed, mix sample again immediately before analysis by inverting another 8 to 10 times.
      iii. Samples should be analysed no later than 4 hours after draw

Sample Analysis

1. Touch **SAMPLE ANALYSIS** tab. Touch **NEXT SAMPLE**
2. Enter desired patient information. Minimum information entry: Sample/Patient ID, Gender, Owner Surname, Species, Patient Name.
3. Invert sample 8-10 times. Introduce sample to aspiration probe and touch the **ASPIRATE** key. Analyser beeps and retracts sample probe when patient sample (15ul) has been aspirated.
4. Review results:
   a. On-screen values, scatter plots, histograms, and reference range flags.
   b. Touch **WBC** column to view reference ranges; Touch **RBC/PLT** column to view reference ranges (Figure 3)
   c. If results show any errors, or the results are inconsistent with patient presentation, please call Vepalabs on 1300 837 252.

Figure 3

Entering a New Control Lot

1. Download current control lot number information onto a USB memory stick from www.heska.com.au
   a. Select [Lab Diagnostics] from Products dropdown menu
   b. Select [Element HT5]
   c. Scroll down page to Technical Details & Downloads
   d. Select [Resources]
   e. Click [Normal-Control] to download file. (Do not open file on computer, just copy and paste onto the USB)
2. Plug USB into machine and Select the **QC** tab.
3. Select [**Setup**] > [**New**] > [**Import File**] and wait for files to load.
4. Select desired control file to import and touch [**OK**].
5. Select [**Return**]**,** then Save? [**Yes**]

Changing Reagents

1. Select [**Reagent Setup**] tab, touch [**Setup**].
2. Scan barcode for reagent you are replacing and confirm Reagent Name, Exp Date, Volume are populated. Touch [**Apply**].
3. If you are changing more than one reagent, touch [**Setup**] again, scan barcode and touch [**Apply**].
4. Once all reagent barcodes have been scanned and applied, touch **[Close]**. Verify all reagents that were replaced are listed. Touch [**Ok**]. The analyser will prime systems with new reagent(s).

Demonstrational Videos

Morning Start-up Procedures

Running a Sample

Quality Control Set-up

Dealing with Errors

Replacing Reagents