

# **SCIL Vet ABC Plus Fast Facts**

## **Table of Contents**

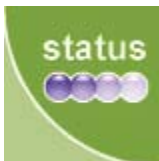
Start Up Cycle	pg. 2
Reagents	pg.2-3
User Profiles	pg.3
Default Species	pg.3
Status Icon	pg.4
Analyze a Patient Sample	pg.5
Daily Quality Control	pg.6-7
Machine Shut Down Procedure	pg.8
Concentrated Cleaning	pg.9
Calibration	pg.10-11
Archiving Settings	pg.12
Flags	pg.13
Quality Control Target Values	pg.14-15

# SCIL Vet ABC Plus – Fast Facts

## Start Up Cycle

A Start Up cycle is performed every time the machine is powered on by turning on the switch at the back of the machine. A temperature check cycle will initiate on power up and once it passes the Start up Cycle will begin. Samples should not be run until a Start Up has passed.

To initiate a Start up Cycle Press the Status Button located at the top left of the screen and then press the Green Start Up Button on the bottom right corner of the screen.



Status



Start Up

## Installing the Reagent Pack

1. Remove the 4 red caps (3 on the bottom ports and 1 on the top waste port)
2. Firmly place the reagent pack into the right side of the Vet ABC Plus and connect the waste line to the top of the pack. ABC should be facing out.
3. Press the Maintenance Button
4. Press the Reagent Tab at the top of the screen
5. Press the Replace Button (bottle)
6. Press the OK Button to confirm the reagent replacement
7. Press the Edit Button (notepad)
8. Press the Internal Keyboard Button
9. Enter the Lot number in the text field. The Lot number is located on the front of the reagent pack. (ex. 090706W3) If the Lot number is entered correctly the pack information will be loaded into the empty text fields
10. Press the OK Button. The pack should now be at 100% with 212 cycles remaining
11. Press the Prime Button.



Maintenance



Replace



Prime



OK



Edit



Internal Keyboard

## **CBC's Left in Pack**

1. Press the Maintenance Button
2. Press the Reagent Tab
3. The number and percentage remaining are found on this screen

## **Burp Reagent Pack**

Make sure that you Burp your pack regularly. Remove the waste line at the top of the reagent pack and press a pen or screw driver on the top port to release any build up of air inside the waste. The more the machine is used the more regularly you will have to burp the pack.

## **User Profiles**

VET – General user, No password required. Press the valid button to log on.

ADMIN – Password enforced. Allows user to archive software and analyzer settings.  
Calibration can only be performed by the ADMIN user profile.

TECH – Authorized service provider login.

SCIENTIST – Not used

## **Default Species Selection**

Selecting your default species will not only make it more convenient when running samples on the most common species you treat and test at your clinic but it will also allow you to utilize the full potential of the XB Graph.

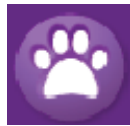
1. Press the Maintenance Button
2. Press the Settings Button
3. Press the Analys. Tab at the top of the screen
4. Press the Circle beside Species
5. Press the Species name that you would like to set as your default species.
6. Press the Default Species Button
7. The Default Species text field should now have the species name that you selected.
8. Press any Menu Button to exit this screen.



Maintenance



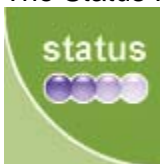
Settings



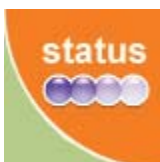
Default

## Status Indicator

The Status Indicator Button located in the top right of the screen has 3 states.



- Indicates that the machine is functioning fine with no Alarms



- Indicates that an alarm has been raised  
You are still able to analyze a sample



- Indicates that an alarm has been raised and the machine is locked  
You cannot analyze samples until the alarm is resolved.

The 5 possible categories for Alarms in order as shown on the Status screen are;

1. Instrument Alarms (Vet ABC Plus Icon)
2. QC Alarms (QC Icon)
3. Reagent Alarms (Drop Icon)
4. Archive Alarms (Archive Icon)
5. Application Alarms (Disk Icon)



A message will be displayed explaining the reason for the Alarm.

More information on these alarms can be found in your **SCIL Vet ABC Plus Short User Manual in Chapter 13.**

Ensure your start up has passed, your QC has passed and your Archives are up to date. This will help prevent and resolve most Status Alarms.

# Analyzing a Patient Sample

## Requirements

- Use only EDTA K2 Lavender Top Tubes
- Ensure tubes are filled at least half way
- Mix sample thoroughly by inverting 10-12 times
- Analyze the sample as soon as possible

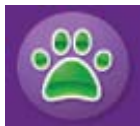
## Procedure

1. Log on as VET or ADMIN
2. Press the Species Selection Button to change the species if necessary and select the species you are going to analyze
3. Press the Internal Keyboard Button and enter the Sample ID and any other fields you wish to input.
4. Press the OK Button
5. When the needle comes down place the sample tube under the needle and press the sample bar to aspirate the sample
6. Once the analysis is complete the measured results and histograms will appear on the screen.
7. If you notice any flags or alarms and are unsure of what they mean, please consult the Flags and Limits section of the Fast Facts Manual. You can also consult your SCIL Vet ABC Plus users manual for more detailed explanations.

Sample ID→ is the only field that must be filled in to run a sample. **AUTOSID** is default.

Animal ID→ the patient will be saved internally and can be identified by its.

Date of Birth→ if you use this field, you must enter all fields (Month, Day, Year)



Species Selection



Internal Keyboard



OK

# Daily Quality Control Instructions

## Required:

- One 2.5-mL vial of *Minotrol*, Blood Control. (Low, Normal or High)
- Quality Control Target Values must be loaded on the Vet ABC Plus for the selected control vial.  
(See page 14 of the Fast Facts “Quality Control Target Values” instructions to load targets and limits)

## Caution

The Blood Controls;

- Must be stored in a refrigerator between 2 and 8 degrees Celsius.
- Can never be frozen at anytime.
- **Cannot** be left out for more than 15 minutes.
- **Cannot** be held in a hand while waiting for control results, may get too warm
- Do not use a Blood Rocker.

## Blood Control Preparation<sup>1</sup>

- Read entire Quality Control Procedure.
- Remove Blood Control Vial from the refrigerator and roll the blood control vial in your hands until the vial is at room temperature.
- Invert the vial back and forth slowly, paying attention to the concentration of cells at the bottom of the vial. There should not be a concentration of cells at the bottom of the vial when the vial is properly mixed. **DO NOT SHAKE**
- The Low and Normal controls mix fairly easily while the High control contains more cells and requires a longer inversion period.
- When running multiple Blood Controls, always invert the vial 10 times before each sample. Do not continue to roll the vial in your hands.

\*\*All blood control vials are stable until the printed expiration date if unopened. Once the control is opened it is good for **16 days** in a refrigerator if proper handling is followed.

## Quality Control Procedure

1. Run a Start Up Cycle and confirm that the Start up passed before running a blood control sample.
2. Press the Sample Identification Button.
3. Enter the lot number of the blood control you are going to run in the "Sample ID" field. (eg. MX010H)
4. Blood Control Preparation<sup>1</sup> as stated above.
5. Press the OK Button
6. A quality control information screen will appear and the needle will come down. Remove the cap and place the vial under the needle, press the sample bar to aspirate the sample.
7. Place the vial upright in a holder beside the machine until it is time to run another sample.
8. When the analysis of the sample is complete, the results will display on the screen. The machine will indicate if any values are out of range by assigning an "L" for LOW or an "H" for High beside the value(s) that is/are out of range.
9. If any of the values aren't within range on the first sample, re run the control two more times and keep all three Quality Control result print outs.
10. If the results are not satisfactory then perform a concentrated cleaning followed by a Start Up Cycle before re running a Blood Control. Most problems are resolved by following this process.
11. Once a successful Quality Control has been completed, put your control vial back in the refrigerator.
12. The machine will ask the user to Archive the Quality Control Data.
  - Press the Maintenance Button
  - Press the Archive Tab at the top of the screen.
  - Press the Circle beside QC
  - Press the Complete Export Button
13. If at anytime you feel you need assistance with any of the steps outlined or help with troubleshooting your Vet ABC Plus, please call Vet Novations technical support. Fax any failed or questionable results and start up cycle print outs to the fax number below.



Sample Identification



OK



Maintenance



Complete Export

**Technical Support Phone**  
**1-866-382-6937**  
**Technical Support Fax**  
**(705) 726-9202**

## Machine Shutdown Procedure

It is very important to follow the shut down procedure for your Vet ABC Plus.

1. Press the Exit Button located at the bottom left of your screen
2. Press the Shut Down Button
3. Allow the machine to complete its shut down cycle
4. Power the machine off by flicking the switch located at the back of the machine to the right of the power cable.

### Other Buttons

Reset Button will reboot the instrument without switching off the power.

Logout Button will end a session and return to the log in screen



Exit



Shut Down



Reset



Log out

There is an On/Off Timer that can be programmed to turn your machine on and turn your machine off as specified by the user. To access this menu;

1. Press the Maintenance Button
2. Press the Settings Button
3. Press the Cycles tab at the top of the screen
4. Press the circle beside On/OFF
5. Press the Edit Button
6. Press the Internal Keyboard Button
7. You can now enter your starting time, ending time for each day of the week



Maintenance



Settings



Edit



Internal Keyboard

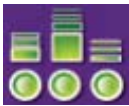
## IMPORTANT

**ALWAYS cover** the Vet ABC Plus after it is shut down with the provided **Dust Cover**

# Concentrated Cleaning

**A minimum of one per week is required.** Some clinics, depending on frequency of use, will have to perform more than one a week if instructed to do so by Vet Novations Technical Support.

1. Press the Maintenance Button
2. Press the Customer Service Button
3. Press the Circle located beside Concentrated Cleaning
4. Press the Start Cycle Button
5. Press the OK Button to proceed
6. Follow the instructions on the screen. WBC is on the left RBC is on the right. Minoclair is 50/50 Javex/Distilled water for a total of 6 mls
7. Use your Key to open the front door. Close the front door once you have finished following the instructions.
8. Press the OK Button to begin the process. The process will take 10 minutes to complete.



Maintenance



Customer Service



Start Cycle

# Calibration

The SCIL Vet ABC Plus should be calibrated every six months.

## **Before Calibrating**

- Perform a concentrated cleaning
- Run 3 Daily Quality Controls and make sure they are consistent. The values can be out of range but must be consistent with each other.
- If you are unsure of your results please call technical support before proceeding with the calibration.

**DO NOT** remove the Calibration Fluid from the refrigerator until step 6 is complete and you understand the instructions.

**Do not** follow the instructions that come with the calibrator. Only follow these instructions to complete the calibration.

When calibrating your machine the measured value of each parameter may not reflect the target values indicated on the sheet provided with the calibrator vial. Your goal is **not** to recreate the values on the target sheet provided with the calibrator vial; the targets are used as reference for calibrating the instrument.

If you are in the middle of doing a calibration and need to call technical support make sure you **return your calibration fluid to the refrigerator.**

1. Press the Maintenance Button
2. Press the Cal. Tab at the top of the screen
3. Press the Calibration Creation Button
4. Press the Internal Keyboard Button and fill in all required data. This information comes with your calibrator vial on the sheet provided.
  - Set the number of cycles to 6.
  - Enter the expiry date of the calibrator vial
  - Enter the target values as shown on the calibrator vial sheet
  - Press the Cancel Button when all data has been input.
5. Remove your calibrator vial from the refrigerator and follow the Blood Preparation instructions found in the Daily Quality Control instructions
6. Press the OK Button the calibration cycle will begin.
7. The needle will come down. Aspirate the sample by placing the vial under the needle and press the sample bar.
8. Results will be displayed. Press the OK Button to accept the results

9. You can press the Cancel Button to discard a run and re run the sample if you feel that the results are not satisfactory.

If during any Run, the results are displayed and there is no OK Button, the machine won't accept that run due to a flag on one of the parameters. Press the Cancel Button to proceed. You will have to re run the sample.

If your calibration fails, return your calibrator vial to the refrigerator immediately. Keep your print out and all related information and call Vet Novations technical support line for further instructions. You can also fax your print out to the Vet Novations technical support fax line.



**Technical Support Phone  
1-866-382-6937**

**Technical Support Fax  
(705) 726-9202**

## Archiving Settings

The Status Icon will inform the user when an archive update is required.  
The SCIL Vet ABC Plus USB Key must be inserted in the front slot of the instrument.  
All data is save to the USB Key.  
The five categories that require the user to archive data are;

**Settings Archive** – Corresponds to the instrument settings.  
Can be created or restored by the ADMIN user.

**Analyser Archive** – Corresponds to the instrument adjustments.  
Can be created or restored by the ADMIN user.

**Logs Archive** – Logs archives can only be created.  
Can only be created.

**QC Archive** – QC data must be archived when target values are loaded, a QC sample is performed and when a control is deleted.  
Can only be created.

**Analyses Archive** – Corresponds to the patient results.  
Can only be created.

## Access Archive Menu

- Press the Maintenance Button
- Press the Arch. Tab at the top of the screen.



The category it does not require archiving



You are required to create an archive

## Create an Archive

- Press the Circle beside the category you want to archive
- Press the Complete Export Button or Incremental Export Button

If you do not want to create an archive but want to stop the Status Button from flashing, press the Circle Button beside the flagged category and press the Reset Button.



Maintenance



Complete Export



Incremental Export

## **Flags**

**\*** - following either WBC, RBC HCT or PLT -- system analyzed the sample 3 times but all 3 counts differed and were outside the system's precision limits (see below). Result should be verified by repeating the sample.

**\$** - between the test result and the units -- 3 counts were made and 2 were within the system's precision limits (see below). The result can be accepted.

**!** - next to the HGB result -- the difference between HGB blank done for this analysis and the HGB blank done for the previous analysis was outside the system's precision limits. Instrument provides a result based on the previous HGB blank. Result can be accepted. If flag persists for more than 3 consecutive times, see section 9.2.3.3 in the scil Vet abc manual to run checkup procedure.

**H / L** – behind result: Result is higher / lower than the reference value.

**---D** or < printed instead of a result -- linearity range for that parameter has been exceeded (see below). Repeat using a 1:2 dilution with saline solution. Multiply your results by 3.

**MIC** following PLT Flags -- microcytes present in the platelet measurement zone. Verify result with manual count.

**SCH** following PLT Flags -- schistocytes or platelet aggregates present in the platelet measuring zone. Review slide before reporting results.

**SCL** following PLT Flags -- small particles in the 2 - 3 fl zone. Reanalyze sample. If flag persists, perform an automatic cleaning cycle and repeat again. If flag still persists, perform manual platelet count.

**AG1 and AG2** – Flags for big Leucocytes aggregates (> 1,5 % / 2,5 % of total Leucocytes). Mix sample properly and repeat measurement.

# Load Quality Control Target Values SCIL VET ABC PLUS

## **Download QC Target Values to USB**

1. Insert your Vet ABC Plus USB Key into a computer with Internet access.
2. Go to [www.vetnovations.com/service.html](http://www.vetnovations.com/service.html) and click on the link named "Vet ABC Quality Control Target Values MXxxx.csv". Once the file download window appears click Save on the download window and navigate to your USB Key and click Save.
3. Right click on the Green Arrow icon located in the bottom right corner of your computer screen and select "Safely Remove Hardware", highlight the USB Key and click Stop. You can now remove your USB Key from the computer.

**DO NOT** load all 3 sets of target values (low, normal, high) in all three columns, unless you want to open and run all three control vials daily. Load the targets as you need them.

## **Upload QC Target Values to Vet ABC Plus**

1. Insert the USB Key into the front slot of the instrument.
2. Log on with either the VET user profile or the ADMIN user profile
3. Press the QC Button.
4. Select the first column for Low (blue), second for Normal (green) and third for High (red) in the QC screen by pressing the circle button at the top of the column. (Three columns can be used to run 3 control levels each day.)
5. Press the Control Importation Button
6. Press the control level you want to load and press OK. Load only the control you plan on running. A control modification screen will appear.
7. Press the Internal Keyboard Button. Press the "interQC time limit" at the top of the screen, highlight the text field and delete the default "24" and replace it with 9999. Press the Valid Button to accept the change.
8. The QC targets are now loaded for the selected QC vial. The Status Indicator will flash orange and ask you to run a QC immediately. Refer to the Daily Quality Control Instruction.

## Deleting QC Target Values

The control vial is only good for 16 days after opening. Once the 16 days is up you will have to delete the Quality Control Target Values.

1. Press the QC Button
2. Press the Circle Button at the top of the column that you want to
3. Press the Delete Button at the bottom to close the current control.
4. The column will now be empty and you can load a new set of Quality Control Target Values for the next control vial that will be used. You will be asked to archive the changes.



QC



Control Importation



Internal Keyboard



Valid



Delete