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Owner:	*Sally Kramer: Manager - Lab Science Tech - SJ*
Policy Area:	*Lab / Chemistry*
References:	
Applicability:	*Saints and Highline*

Mini Vidas Maintenance, M-W-CH14050

PURPOSE

To provide instructions for performing daily, weekly, and monthly maintenance on the mini Vidas analyzer.

BACKGROUND

Daily Maintenance is performed on the mini Vidas every day, Weekly Maintenance is performed once a week on the mini Vidas in addition to the Daily Maintenance for that day. Monthly Maintenance is performed every month on the Mini Vidas and is performed along with the Weekly and Daily Maintenance.

INSTRUCTIONS

Daily Maintenance:

1. Select [Status Screen] from the main menu.
2. Select [Display temperatures].
3. Record or [Print] the temperatures on screen and write them in the Mini Vidas Maintenance Log. (Please note that the acceptable temperature ranges are 36-38 ˚ C for the SPR Blocks and 35-38 ˚ C for the Section Trays.)
4. You are now ready to run the QC levels 1 and 2 which is also done once daily.

Weekly Maintenance:

1. Turn off mini Vidas using the power switch in the back, disconnect the power cord.
2. Get three small urine specimen cups and fill up a cup about halfway with **distilled water**. In another cup make a 0.5% solution of bleach by adding 2mL 5% Bleach to 20 mL distilled water to make a **bleach solution**. In the last cup use 1 gram of the Alconox detergent added to 100mL of DI H20 to make a **detergent solution**. Set aside.
3. Fully open the A and B Section doors by opening the door slightly while pulling the black safety latch towards you which should then allow the doors to open all the way.
4. Using Dacron swabs dipped in the **detergent solution**, swab and clean the interior of each of the SPR sleeves. Make sure the entire sleeve is swabbed internally from the back to the front of each.
5. Using Dacron swabs dipped in the **bleach solution**, swab and clean the interior of each of the SPR sleeves. Make sure the entire sleeve is swabbed internally from the back to the front of each.

6. Using a curved hemostat, take a piece of sponge dipped in the **detergent solution** and clean the rear of the SPR blocks pushing each sleeve back to meet the sponge as you do this.
7. Using a curved hemostat, take a piece of sponge dipped in the **bleach solution** and clean the rear of the SPR blocks pushing each sleeve back to meet the sponge as you do this.
8. Wait for 10 minutes.
9. Using Dacron swabs dipped in the **distilled water**, swab and clean the interior of each of the SPR sleeves. Make sure the entire sleeve is swabbed internally from the back to the front of each.
10. Using a curved hemostat, take a piece of sponge dipped in the **distilled water** and clean the rear of the SPR blocks pushing each sleeve back to meet the sponge as you do this.
11. Use clean dry Dacron swabs and Kim wipes to dry SPR's and the SPR Blocks.
12. Wait for 10 minutes and then plug the power cord to the mini Vidas back in and switch the instrument on.
13. Once the mini Vidas is back up you must run the Vidas QCV assay kit.
14. Load all 12 positions and all 12 SPR sleeves with the components from the kit which should have black labels to identify them as QCV components. No ID entry is necessary, simply press [START] to begin the testing. This takes approximately 20 minutes to perform.
15. The TV1 value on the printout should be equal to or greater than the TV1 value listed on the kit label and the R3 value must be ≥4100 RFU. Repeat testing if out of range.
16. Assuming your QCV is acceptable, you are now ready to perform the Daily Maintenance.

Monthly Maintenance:

1. Turn off mini Vidas using the power switch in the back, disconnect the power cord.
2. Find three small urine specimen cups and fill up one cup with **distilled water**. In another cup make a 0.5% bleach solution (2mL 5% Bleach to 20 mL distilled water). In the last cup use 1 gram of the Alconox detergent added to 100mL of DI H20 to make a **detergent solution**. Set aside.
3. Fully open the A and B Section doors by opening the door slightly while pulling the black safety latch towards you which should then allow the doors to open all the way.
4. Lift the handles of the strip preparation trays and tilt the trays towards you to expose the two screws attaching each of the trays onto the instrument. Remove the screws using a Philips head screwdriver.
5. With your finger and thumb squeeze the two tabs holding the trays in place and gently pull forward to remove the two trays.
6. Carefully remove the two drip trays located underneath the reagent strip trays by sliding them toward you.
7. Using a curved hemostat, take pieces of sponge dipped in the **detergent solution** and clean all the trays including all of the strip trays, the drip trays, and all of the channels (24 total). Using Dacron swabs dipped in the **detergent solution**, swab and clean the interior of each of the SPR sleeves. Make sure the entire sleeve is swabbed internally from the back to the front of each. Using a curved hemostat, take a piece of sponge dipped in the **detergent solution** and clean the rear of the SPR blocks pushing each sleeve back to meet the sponge as you do this.
8. Using a curved hemostat, use pieces of sponge dipped in the **bleach solution** and clean all the trays including all of the strip trays, the drip trays, and all of the channels (24 total). Using Dacron swabs dipped in the **bleach solution**, swab and clean the interior of each of the SPR sleeves. Make sure the entire sleeve is swabbed internally from the back to the front of each. Using a curved hemostat, take a piece of

sponge dipped in the **bleach solution** and clean the rear of the SPR blocks pushing each sleeve back to meet the sponge as you do this.

9. Wait for 10 minutes.
10. Using a curved hemostat, take pieces of sponge dipped in the **distilled water** and clean all the trays including all of the strip trays, the drip trays, and all of the channels (24 total). Using Dacron swabs dipped in the **distilled water**, swab and clean the interior of each of the SPR sleeves. Make sure the entire sleeve is swabbed internally from the back to the front of each. Using a curved hemostat, take a piece of sponge dipped in the **distilled water** and clean the rear of the SPR blocks pushing each sleeve back to meet the sponge as you do this.
11. Use clean dry Dacron swabs and Kim wipes to dry SPR's and the SPR Blocks, the drip trays, strip trays, and all of the channels (24 total).
12. Wait for 10 minutes.
13. Reinstall the drip trays by guiding them along the plastic grooves on each side taking special care to make sure that the electric wire remains underneath each tray as you push them back inside.
14. Slide the strip preparation trays back into their housings and you should hear an audible "click" when properly installed. Raise the trays upright and reattach their screws back in place and then slide the tray back into its normal position.
15. Clean the optical lens using the Vidas Lens Cleaner device. Behind the SPR blocks you will see the optical lens in back. Position the Vidas Lens Cleaner device near the lens but do not touch it. Squeeze the ball 10 times to blow air onto the upper and lower lens 10 times each. Place the cleaner device back in its protective box and put it away.
16. Close the SPR blocks and make sure every component of the instrument is properly back into their closed positions.
17. Plug the power cord to the mini Vidas back in and switch the instrument on.
18. Once the mini Vidas is back up you must now find the Vidas QCV assay kit.
19. Load all 12 positions and all 12 SPR sleeves with the components from the kit which should have black labels to identify them as QCV components. No ID entry is necessary, simply press [START] to begin the testing. This takes approximately 20 minutes to perform.
20. The TV1 value on the printout should be equal to or greater than the TV1 value listed on the kit label and the R3 value must be ≥4100 RFU. Repeat testing if out of range.
21. Assuming your QCV is acceptable, you are now ready to perform the Daily Maintenance.

PROCEDURAL NOTES

- Be sure to perform Daily Maintenance and Quality Controls **after** doing the Weekly and/or Monthly Maintenance, not before.
- Pictures and further information, if needed, can be found in the Mini Vidas Procedures Manual.

REFERENCE

bioMérieux, Mini Vidas Procedures Manual 2014

Attachments:

MiniVidas Maintenance Log

Approval Signatures

Approver	Date
Arlene Brennan: Administrative Coordinator	04/2018
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