

Kodak IBI Biolyzer Operation SOP

Approvals:

Preparer: _____ Deb Audino _____ Date _____ 03Apr08 _____
Reviewer: _____ Bob O'Brien _____ Date _____ 03Apr08 _____

1. Purpose:

1.1. Operation of the Kodak IBI Biolyzer Rapid Analysis.

2. Scope:

2.1. Applies to the operation of the Kodak IBI Biolyzer Rapid Analysis System to track vital analyte consumption/production of living organisms.

3. Responsibilities:

- 3.1. It is the responsibility of the course instructor/lab assistant to ensure that the SOP is performed as described and to update the procedure when necessary.
- 3.2. It is the responsibility of the students/technicians to follow the SOP as described and to inform the instructor about any deviations or problems that may occur while performing the procedure.

4. References:

- 4.1. Kodak IBI Biolyzer Manual.
- 4.2. Kodak EKTACHEM DT pipette SOP.

5. Definitions:

5.1. Analyte: chemical/substance being measured.

6. Precautions:

6.1. Do not open spotting locator cover or the unit will have to reboot and warm-up again.

7. Materials:

- 7.1. Vitros slides from the -20°C freezer.
- 7.2. Kodak EKTACHEM DT pipette
- 7.3. Kodak EKTACHEM DT pipette tips.
- 7.4. charge cord for pipette.

8. Procedure:

8.1. Instrument Preparation

- 8.1.1. Turn on the instrument. Allow the instrument to warm up for 15-20 minutes prior to using.
- 8.1.2. Plug in the charge cord to the Kodak pipettor. Make sure red plug shows in the window. If not, then depress the black-square button until it does.
- 8.1.3. Remove the test slides from the freezer and/or refrigerator. Allow them to reach room temperature before using (15-30 minutes).

8.2. Maintenance

8.2.1. Perform daily maintenance prior to using the instrument by emptying the slide disposal box on the right rear of the unit and checking the paper level.

8.3. Sample testing

- 8.3.1. Enter the date in the Biolyzer by the following steps:
- 8.3.1.1. Press the SHIFT then the SERVICE key.
- 8.3.1.2. At the OPTION prompt, type "17" then ENTER.

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8.3.1.3. Enter date as MM-DD-YY, then ENTER. NOTE: this will return you to the OPTION prompt.

8.3.1.4. Exit out of service mode by pressing the SHIFT then the SERVICE key.

8.3.2. Remove the slide to be tested from the foil package. NOTE: slides must be used within 15 minutes of opening a package.

8.3.3. Place the slide on the slide track, line up slide as shown on slide lever. Manually push the slide advance lever to move the slide into the spotting position. NOTE: console should read: "spot slide with fluid."

8.3.4. Enter ID of specimen (if necessary) by pressing SAMPLE ID key and enter sample name/number. If no ID is necessary the machine will automatically assign it a numerical number (ie. 1,2,3, etc.)

8.3.5. Using the Kodak EKTACHEM DT pipette, remove 10 µl of the test sample. Refer to the Kodak EKTACHEM DT pipette SOP for proper use.

8.3.6. Insert the pipette tip into the spotting locator (hole above slide) ensuring pipette is properly seated and dispense the sample. NOTE: The console should read: "Wait- slide being loaded."

8.3.7. Wait for the console to read: "Ready." Remove the pipettor from the locator and discard the pipette tip. Repeat steps 8.3.2 – 8.3.6 for each analyte to be tested. NOTE: slides will advance into slide disposal box.

8.4. Interpretation

8.4.1. The values will print shortly after procedure is completed

9. Attachments: N/A

10. History:

Name	Date	Amendment
Sonia Wallman	1997	Initial release
Zach Bodah	18Feb05	Updated to 2005 SOP format
Deb Audino	04 Apr08	College name change