

Title: Automated Cell Counter SOP

Approvals:

Preparer: _____ Cheyenne Garner _____ Date: _____ 14OCT2019 _____

Reviewer: _____ Jeff Rapp _____ Date: _____ 14OCT2019 _____

1. Purpose:

1.1. To learn the proper operation of the automated cell counter.

2. Scope:

2.1. To accurately load the sample onto the slide.

2.2. To accurately load the sample into the automated cell counter.

2.3. To get an accurate reading of the number of living and dead cells and the viability of the sample.

3. Responsibilities:

3.1. It is the responsibility of the instructor to make sure students follow the SOP as described and that the SOP is updated as needed.

3.2. It is the responsibility of the students to follow the SOP as described and to notify the instructor if something occurs while operating the automated cell counter.

4. References:

4.1. Reference the directions that came with the automated cell counter.

5. Definitions:

5.1. Automated Cell Counter: a machine that automatically counts cells

6. Precautions:

6.1. Make sure not to overload the slide with the sample.

7. Materials:

7.1. Automated Cell Counter

7.2. Micropipette

7.3. Luna Cell Counting Slide

7.4. Micropipette tips

Title: AUTOMATED CELL COUNTER SOP

8. Procedure:

8.1. Prepare and load your sample:

- 8.1.1. Mix 15 ul of dye (0.4% Trypan Blue Stain) and 15 ul of sample.
- 8.1.2. Load 15 ul of the mixture into the chamber of a Luna Cell Counting Slide.

8.2. Insert the Slide:

- 8.2.1. Insert the slide completely into the slide port in front of the counter.

8.3. Count Cells:

- 8.3.1. Preview the cells. If needed, press the magnifier to enlarge the images.
- 8.3.2. Press the arrow heads (up or down) to focus the cells or press [autofocused counting] to activate the autofocusing function.
- 8.3.3. Press [count] to start cell counting

8.4. View and Save Results:

- 8.4.1. Press [save/print] to save or print the results
- 8.4.2. Press [histogram & gating] for cell size gating
- 8.4.3. Press [images] to review the images

9. Attachments:

- 9.1. Pictures of the Automated Cell Counter:

