



Cell Viability Incorporated

Vi-CELL



QUESTION: What is the correct sequence of analysis for my Vi-Cell XR?

ANSWER:

It is important to note that the Vi-Cell XR typically performs an automatic flush cycle every 24 hours if the instrument is left on and the software running. If the system is turned off and the software is not running, the automatic flush will be done when it is turned back on. This is important to keep in mind when leaving the Vi-Cell XR idle and not in use.

The following is the sequence of operations for the Vi-Cell XR....

- 1 – The sample carousel will rotate and stop when the sample cup is just under the sample sipper tube.
- 2 – The sipper tube will lower into the cup to begin aspiration.
- 3 – The Vi-Cell syringe will draw the up to 2.5ml of available sample.
- 4 - The Vi-Cell syringe will then return the sample into the cup to re-suspend the sample and ensure a homogeneous well-mixed suspension.
- 5 – The Vi-Cell syringe will again draw the up to 2.5ml of available sample
- 6 – The Vi-Cell syringe valve will rotate to Waste Mode and dispenses to waste leaving 0.5ml of sample in the syringe.
- 7 - The Vi-Cell syringe valve will now rotate to allow the drawing of 0.5ml of Trypan Blue solution from the reagent pack.

8 – With both the 0.5ml of sample and the 0.5ml of Trypan Blue in the syringe, the Vi-Cell will now mix the two solutions by dispensing the two solutions (1.0ml total) into the sample cup and back three times to ensure proper mixing.

9 – Now with the 1.0ml of mixed solution (sample + Trypan Blue) in the syringe, the syringe valve will rotate to allow the dispensing of the sample to the sample cell where the camera will begin collecting images and the software will analyze the images.

10 – As the sample passes the sample cell for analysis, the sample is pushed to the waste container inside the Vi-Cell.

11 – With the analysis done, the flow-cell is now rinsed, the sample cup is then filled and rinsed with cleaning agent from the reagent pack, both the flow-cell and sample cup are then rinsed with disinfectant and finally with the buffer solution. All used fluids are discarded to the waste container.

12 – The syringe dries out the sample cell and sipper tube with air.

13 – The sample cup is then ejected as the carousel rotates and leaves the next sample cup in place under the sipper tube to do the next run.

14 – In total, the Vi-Cell XR should complete the total cycle in just under 3 minutes.

For additional Information, please contact us directly:

Cell Viability Inc 8724 Sunset Drive #403 Miami, Florida 33173

Phone – 1-800-618-7660 Fax – 305-574-7800

E-mail: Sales@CellViability.com www.CellViability.com

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