

Cellometer[®]

Product Number: CS1-0109-5ML

Description: Cellometer ViaStain[™] PI Staining Solution

Instrument (s): Auto2000, X4, X1, X2, K2, Vision, Vision CBA

Instruction Booklet: ViaStain[™] PI Staining Solution



This product is for RESEARCH USE ONLY and is not approved for diagnostic or therapeutic use.

8001306 Rev. A

Product

Part Number: **CS1-0109-5ML**

Description: Cellometer ViaStain™ PI Staining Solution

Manufacturer Lot Number: **YYMMDD-RR-B**

Volume: **5 mL**

pH Range: 7.4 to 8.0

Description

The ViaStain™ PI Staining Solution enables the user to quantitatively distinguish live and dead cells in pure cultures using the Cellometer system. Propidium iodide (PI) is a membrane exclusion nucleic acid dye that only enters cells with compromised membranes (dead cells). When cell counting is performed using both bright-field and fluorescent imaging, cells that fluoresce in red are counted as dead, while the bright-field image provides the total cell count. The Cellometer software utilizes the total cell count and dead cell count to calculate percent viability.

Materials

Materials Supplied

1. One 5 mL bottle of AOPI Staining Solution in PBS

*Each bottle contains sufficient solution to perform ~ 250 tests using the Cellometer system and the procedure below.

Materials Required

1. Micro centrifuge tube
2. Pipette
3. Cellometer counting chamber (SD100 or PD100)
4. Cellometer Auto 2000, Cellometer Auto X4, with Fluorescence Optical Module XB-595-501, Cellometer K2, Cellometer X1, Cellometer X2 or Cellometer Vision / Vision CBA, with Fluorescence Optical Module VB-595-502, VB-660-502 or equivalent

Procedure

1. Pipette 20 μ L of cell sample into a micro centrifuge tube
2. Add 20 μ L of PI staining solution to micro centrifuge tube and mix well by pipetting up and down at least 3 times.
3. Load 20 μ L into a counting chamber (if using SD100 slides, peel plastic film off both sides before loading).
4. Insert loaded slide into the instrument.
5. Select the appropriate assay type for PI cell count and viability measurement.
6. Preview bright-field and fluorescent images.
7. Focus if necessary.
8. Count.

Storage and Handling

Store the PI Staining Solution at 4-6°C protected from light. AVOID FREEZING. The PI Staining Solution is highly carcinogenic; safety precautions must be taken when handling the solution. Please consult the Material Safety Data Sheet for more safety information, found on www.nexcelom.com/Products.

Warranty

This product is for RESEARCH USE ONLY and is not approved for diagnostic or therapeutic use. Product is warranted to meet the specifications outlined in the Certificate of Analysis when stored and used according to the manufacturer's instructions. No other warranty, expressed or implied (such as merchantability, fitness for a particular purpose, or non-infringement) is granted. Warranty is valid until the expiration date stated on the product label. If no expiration is listed, the warranty is valid for 12 months from the date of product receipt.

Warranty will be void if product is stored incorrectly, the recommended protocol is not followed, or the product is used for a different application.

Quality Control

Manufactured and tested according to SOP #: 8001434

Passed

A handwritten signature in black ink that reads 'Matthew Bularzik'.

Matthew Bularzik, Quality Engineer

03/10/2014