

## SOP-E002

# Cleaning Procedure for FC500 Flow Cytometer After Running Samples Stained with Acridine Orange

**Purpose:** to clean out residual AO from the sample lines.

Acridine Orange (AO) tends to stick to the tubing in the flow cytometer. It is very important to take great care to clean out the sample lines from this residual AO. If it is not thoroughly removed, any unstained or any samples run thereafter will take up the dye, perhaps leading to misinterpretation of the data.

**Procedure:**

1. Prepare 12x75mm cleaning tubes as follows:
  1. approximately 2ml of 50% bleach
  2. approximately 2ml of 50% bleach
  3. approximately 2ml of Coulter Clenz
  4. approximately 2ml of water
  5. approximately 2ml of water
  6. approximately 2ml of water
2. Pull up in the CXP software from the resource explorer window, the cleaning panel called

### Post AO Cleaning

3. Place the cleaning tubes in order into the carousel in location 1, 2, 3, 4, 5, and 6.
4. Start the carousel.
5. When it is completed, run some unstained cells. Check to see if they are still negative.
6. If they are negative, continue shutting down the instrument with the black vacuum tubes.
7. If the unstained cells are picking up some fluorescence, repeat the AO cleaning procedure.
8. Repeat, till unstained cells are negative.

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**Created by:** Kathy Ragheb, May 08, 2008

**Verified by:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
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