



UNC Flow Cytometry Core Facility

Title: Cytek® Aurora User Training	Classification: User Training
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4	Page 1 of 20

Table of Contents

Table of Contents.....	1
1. Startup.....	2
2. Daily QC.....	2
3. SpectroFlo Software.....	4
Getting Started Menu.....	4
Experiments.....	5
Worksheets.....	7
4. Experiment Set-up.....	7
Experiment Wizard.....	7
Unmixing Options.....	9
5. Loader Overview.....	10
Using the Loader.....	11
Loader Settings in Experiment.....	13
Experiments in Plate Mode.....	14
6. Cleaning and Shutdown Procedures.....	16
End of Experiment Cleaning.....	16
Monthly and As Needed Cleaning.....	17
7. Troubleshooting	18
8. References.....	19
9. Revisions	20



UNC Flow Cytometry Core Facility

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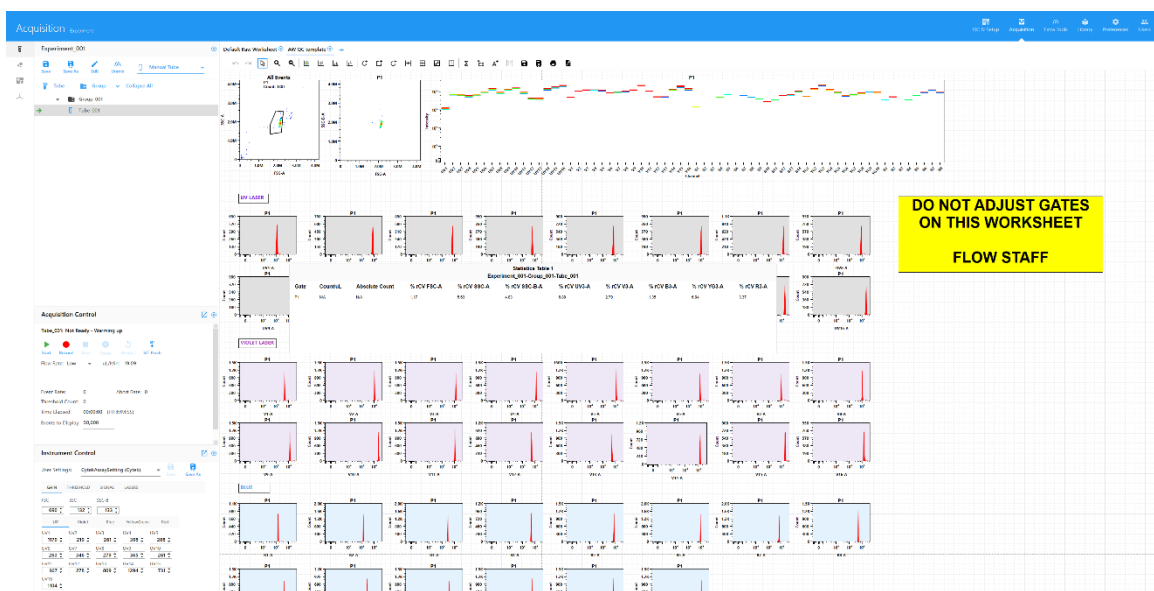
Page 2 of 20

1. Startup

- Check Supply and Waste containers:
 - Empty Waste container in the sink – Add bleach (~10% final concentration).
 - Fill Sheath container with Filtered Deionized Water
- Turn on the workstation, login with ONYEN and password.
- Turn on Cytometer- Left side of instrument.
- Ensure a tube of DI water is on the SIP, then open SpectroFlo software and log in.
- **Wait 30 minutes to allow cytometer to warm up before running Daily QC.** The Software will start a 'Warm-up' timer in the lower right corner of the software once logged in.
 - Note that it is not recommended to run samples during the 30 min warm up, but you are still able to if desired. This only applies for the first time the instrument is turned on in the morning.
- Load a tube of 3 mL DI water and run at a high flow rate for 5 minutes or while the system is warming

2. Daily QC

- Load a tube of SpectroFlo beads (1 drop beads into 300 μ L filtered DI water) onto the SIP.
 - Found in the Fridge of Rm B020
- Open a Default experiment and open "AW QC Template" Worksheet Template



- Run beads on Low and observe statistics. Make sure all values are below 7%. The lower the better. If needed, Clean Flow Cell followed by running DI water on High for 5 minutes.



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

Effective Date: 09/16/2020 **Revision Date:** 11/29/2023 **ID:** UT SOP008.4

Page 3 of 20

- Click **QC & Setup** Tab.
- Select the current bead lot number from the drop down menu then Click **Start**.

- Event Rate should be greater than 150 evts/s
- It will automatically collect 10,000 events
- When Daily QC successfully completes, click **View Report** to see Daily QC report.

*Note: If QC fails, follow guidelines in the Daily QC Failed Dialog that appears.



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

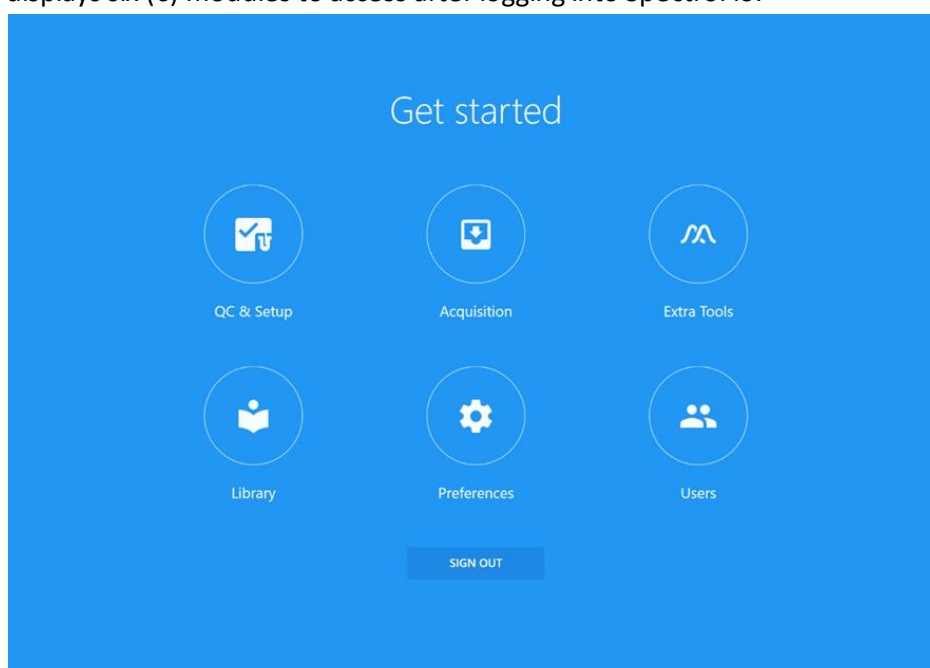
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 4 of 20

3. SpectroFlo Software

Getting Started Menu

This menu displays six (6) modules to access after logging into SpectroFlo.



Module	Brief Description
QC & Setup	Access Daily QC menu
Acquisition	Create experiments and acquire data. Experiments are made from Templates or from new
Extra Tools	FCS Files can be unmixed or compensated using virtual filters
Library	Stores experiment Templates, worksheet Templates, user settings, fluorescent tags, Loader settings, etc.
Preferences	Software preferences to customize software
Users	Admin tools and user management



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

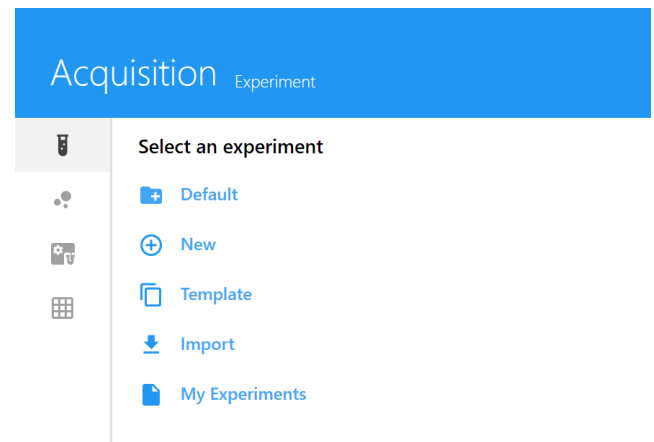
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 5 of 20

Experiments

Opening an Experiment

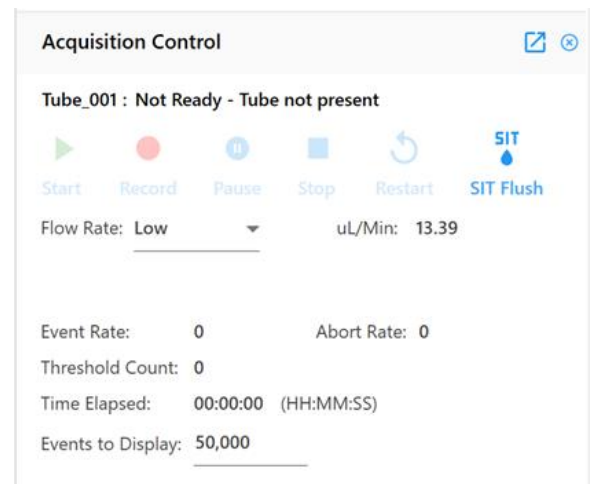
- **Default:** Opens a new experiment with one tube and a set of labels and fluorescent tags in a default experiment worksheet template. This is user configurable.
- **New:** Opens New Experiment Wizard
- **Template:** Open a previously saved Template
- **Import:** Import an experiment ZIP file. Experiments downloaded from Cytek Cloud.
- **My Experiments:** Select from a list of saved experiments. **This is cleared out by Staff every 2 weeks.**



Acquisition Controls

The Acquisition Control Panel is used to control experiment level settings when acquiring and recording samples. Start and Record options are only available when a tube is present on the SIP.

- **Start Button:** Select to start acquisition
- **Record Button:** Select to record data. Record will automatically start acquisition
- **Pause Button:** Pause recording. While paused, flow rate may be adjusted.
- **Stop Button:** Stop acquisition and recording
- **Restart Button:** Clear accumulated data and restart acquisition counters.
- **SIT Flush:** Perform SIT Flush
- Flow Rate Options
 - Low: ~15 $\mu\text{L}/\text{min}$
 - Medium: ~30 $\mu\text{L}/\text{min}$
 - High: ~60 $\mu\text{L}/\text{min}$
- Acquisition Counters display real-time counts
 - Event Rate
 - Abort rate
 - Threshold Count
 - Time Elapsed





UNC Flow Cytometry Core Facility

Title:	Classification:
Cytek® Aurora User Training	User Training
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4	Page 6 of 20

- Events to Display: Number of events to display during acquisition

Instrument Controls

Instrument Control Panel to adjust experiment level instrument settings.

- **CytekAssaySettings** are recommended as a starting point (optimized with CD4/CD8 lymphocytes for resolution).
 - Note you may need to adjust Gains depending on your experimental design and question
- **Gain:** Adjust gains for detectors. Use All Channels % to increase/decrease all gains in selected laser by percentage. FSC gain range: 1-1,000. SSC gain range: 10-10,000.
- **Threshold:** Set threshold parameter and minimum channel value.
- **Signal:** Select measurements for each parameter. Select area, height, and/or width. Width can only be selected for one channel per laser.
- **Lasers:** Set area scaling factor and laser delay. If you are unable to view your cells (very large) on the lowest FSC gain setting, lower FSC area scaling factor (e.g. 0.5)- *ask Core staff before you proceed with this.*

FCS Files

FCS files generated from an experiment are stored in the CytekExport folder by default. The type of FCS file that export depends on the experiment. If no unmixing was performed, raw data files only will export. If live unmixing was performed while acquiring data, raw data files AND unmixed data files will export. If samples were unmixed post-acquisition, unmixed data files only are exported.

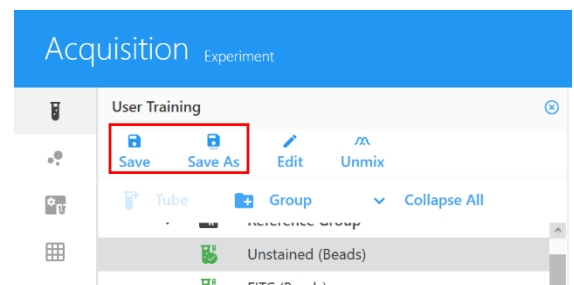
To export data files:

1. ZIP of Experiment (FCS files [raw and unmixed], worksheet(s), cytekassaysettings): Navigate to My Experiments> Select experiment> Export (ONYEN folder)
2. FCS files only: Navigate to File Explorer> OS (C:) > CytekbioExport> FcsFiles> Experiments> Find your username (ONYEN)

Experiment Templates

Experiment Templates contain:

- Fluorescent tags used
- Reference controls
- Groups/tubes
- Labels
- Worksheets
- Stopping criteria for acquisition





UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 7 of 20

- It DOES NOT include CytekAssaySettings, those need to be saved and input separately.

Use the **Save As** selection to save the Experimental Template.

Worksheets

Worksheets are used to visualize the data in the experiment. Experiments require at least ONE worksheet. Worksheets contain plots, gates, annotations, statistics, and population hierarchy. Templates can be loaded or saved via the Worksheet menu on the left side of the software.

Type	Brief Description
Raw	View all parameters for unmixed data. The plots reflect the channel names, e.g. B1-A or V4-A
Unmixed	View parameters selected while setting up experiment, e.g. FITC-A. Only available after data is unmixed.
Template	View data from a previously created and saved worksheet

The screenshot displays the Cytek Aurora software interface. On the left, the 'Acquisition' menu is open, showing options like 'User Training', 'Save As', 'Edit', 'Unmix', 'Tube', 'Group', 'Collapse All', 'Reference Group', 'Unstained (Beads)', 'FITC (Beads)', 'PE (Beads)', 'APC-Cy7 (Beads)', 'APC (Beads)', 'Sample', and 'Mix'. A red box highlights the 'Worksheet' menu item. To the right, the 'Unmixed Worksheet' view is shown, featuring several flow cytometry plots (e.g., FITC-A vs PE-A, FITC-A vs APC-A) and a 'Population Hierarchy' table. The table shows 'User Training-Sample-Mix' as the parent population, with 'All Events' as the child population. A red box highlights the 'Unmixed Worksheet' label. The top of the interface shows the 'Top Menu' with options like 'File', 'Acquisition', 'Extra Tools', 'Library', 'Preferences', 'Users', 'Help', and 'Sign Out'.

4. Experiment Set-up

Experiment Wizard

- Click Acquisition from the Top Menu or Get Started Menu.
- Click **New** in the Experiment menu to create a New Experiment or select from a previously saved Template.



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 8 of 20

- Follow the New Experiment Wizard to name the experiment, select fluorescent tags, define reference group controls, etc.

- **IMPORTANT:** Define an unstained control for autofluorescence by selecting its control type (beads or cells). The control **must** be prepared in the same manner as the samples to ensure accurate unmixing.



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 9 of 20

- You may select **Define Extra Unstained Control(s) for Spillover Calculation** to use different unstained control(s) for reference controls. For example, if you run beads as your controls and they only have positive peaks, you will need an extra control of unstained beads.

Create Reference Group

Define Unstained Control(s) for Autofluorescence Extraction

Name: Unstained Control Type: Beads ☐ Define Additional Negative Control(s) for Spillover Calculation

Fluorescent Tag	Control Type	Label	Negative Control
FITC	Beads		
PE	Beads		
PE-Cy7	Beads		
APC	Beads		
APC-Cy7	Beads		

- Acquisition Settings
 - Select Default Raw Worksheet (Raw) for the Reference Group and Sample groups if unmixing will be done post-acquisition.
 - Select Default Unmixed Worksheet (Unmixed) or any other saved unmixed worksheet for your sample groups if you are performing live unmixing.
- Click **Save and Open** when completed with all steps.
- Cytek recommends running a tube of 3 mL of DI water at high flow rate for 5 minutes prior to running samples.
- Click **Start** to view the data to adjust Gain Settings; click **Record** to when ready to record the data.

Unmixing Options

Live Unmixing

Live Unmixing will allow to view unmixed data live while acquiring:

- Record all reference controls
 - The number of events to record depends on the target population. You need approximately 1000-2000 events in both the negative and positive populations to accurately unmix. It is recommended to save at least 50,000 total events.
 - If you have a heterogenous population and want to utilize AF extraction, it's recommended to record as many cells as possible.



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

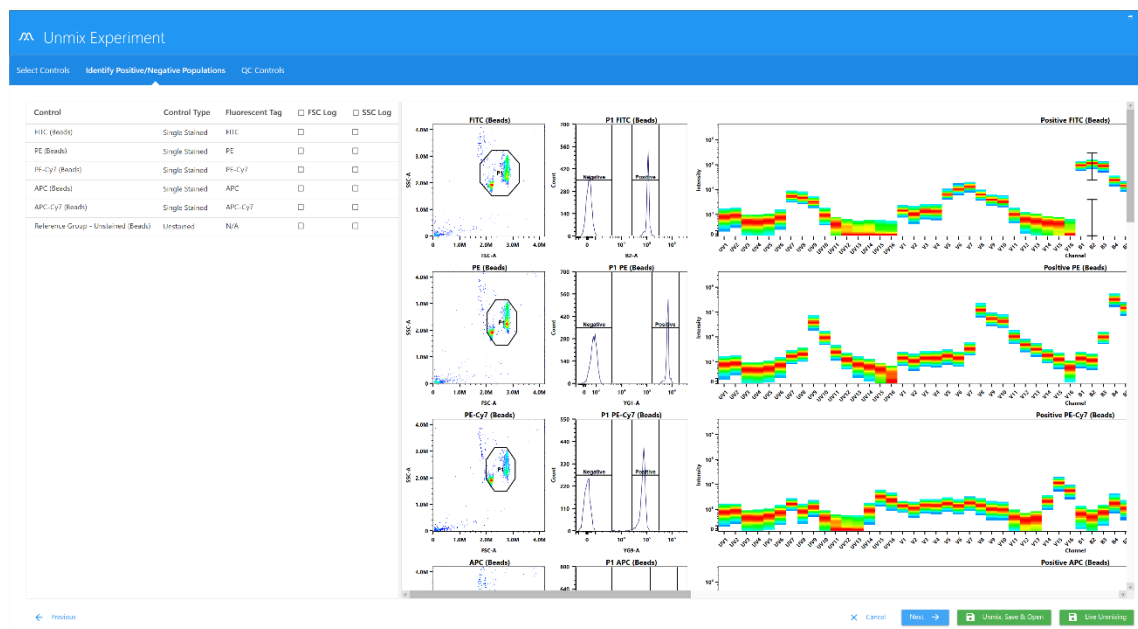
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 10 of 20

- Click **Unmix** in the Experiment Controls.
 - Check Autofluorescence Extraction, if desired; adjust gates to reflect negative and positive populations and peak emission channels.
- Click **Live Unmixing** when complete.
- View samples in an unmixed worksheet. Both raw and unmixed FCS files are saved.

Post-Acquisition Unmixing

- Acquire all reference controls and samples
- Click **Unmix** in the Experiment Controls
 - Check Autofluorescence Extraction, if desired; adjust gates to reflect negative and positive populations and peak emission channels.
- Click **Unmix, Save & Open**
- A new analysis experiment is created automatically. Only unmixed FCS files are saved.



5. Loader Overview

The Loader resuspends samples via a mixing probe. This probe is not effective for cells that tend to fall to the bottom of the plate. Be prepared to bring a multi-channel pipette to resuspend cells. The Loader plate stage houses



UNC Flow Cytometry Core Facility

Title:	Classification:
Cytek® Aurora User Training	User Training
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4	Page 11 of 20

a metal element that can cool/heat from 4°-30°C. The wash station at the back of the plate stage is used to clean the probe after each well.



Loader settings are user-adjustable, including mixing speed, mixing duration, the number of SIT flushes between samples, sample recovery, and data record delay time. Pre-defined Loader settings include the default settings for high throughput mode, standard mode, and low carryover mode.

Using the Loader

The loader must be calibrated for the plate type being used. *This option is only available to Admins, ask Staff for help.*

1. Turn the power to the Loader on. The power switch is located on the back of the loader near where the fluidic lines connect.
2. Remove the tube on the SIP
3. Carefully pull the lever towards you.



UNC Flow Cytometry Core Facility

Title:

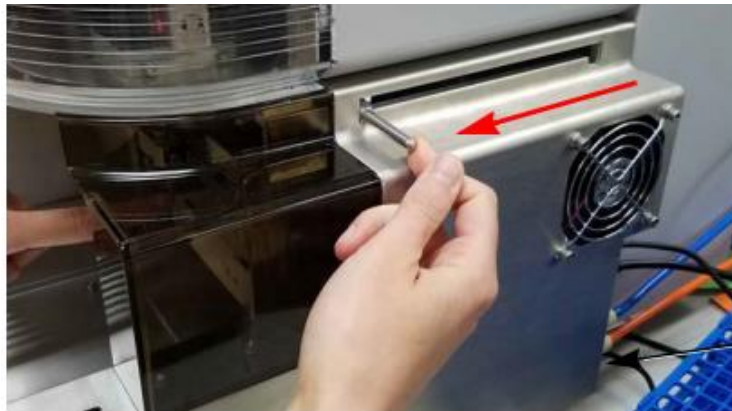
Cytek® Aurora User Training

Classification:

User Training

Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 12 of 20



4. Perform a SIT calibration to your plate.
5. If necessary, click **Eject** from the Acquisition module to eject the stage
6. Load a plate on the stage so the A1 is located in the front-left corner. Gently push the plate against the back of the stage, then press down on the front edge of the plate to secure it with the clips in the holder.
7. Click **Load** from the Acquisition module to load plate, then click **Start** to begin acquisition.
8. To run tubes, select Manual Tube as the carrier type option in the experiment. This is helpful if Reference Controls are in Tubes while experimental samples are in a plate.

*Note: There is a dead volume of **35 uL** sample per well. Recommended minimum volume of **50 uL** sample per well. Max volume is 200 uL.



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

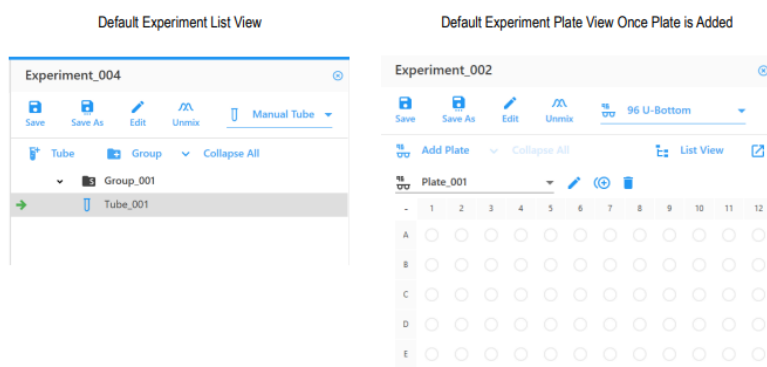
Classification:

User Training

Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 13 of 20

Loader Settings in Experiment



Acquisition Controls



1. Start/Record/Stop/Load/Eject/Restart
2. SIT Flush
3. Flow Rate: Low (~15 uL/min), Medium (~30 uL/min), High (~100 uL/min)
4. Event Rate/Abort Rate/Threshold Count/Time Elapsed
5. Events to Display



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

User Training

Effective Date: 09/16/2020 **Revision Date:** 11/29/2023 **ID:** UT SOP008.4

Page 14 of 20

Loader Settings

Several default Loader settings are available. You can select the Default, High Throughput, or Low Carryover Loader Setting, depending on your application. You can also create custom settings. Loader settings are enabled once a plate is added. Adjust the settings before acquisition.

Settings	Description
Acquisition order	Select the order that you want the plate to run. Wells are acquired by: <ul style="list-style-type: none">row from left to right (A1-A12, B1-B12, etc)column from top to bottom (1A-1H, 2A-2H, etc)row from left to right, then right to left (A1-A12, B12-B1, C1-C12, etc)column from top to bottom, then bottom to top (1A-1H, 2H-2A, etc)
Mix time	Select time (in seconds) that each well is mixed. You can also disable the mix time.
Mix Speed	Select the speed at which the mixer spins (in RPM).
SIT Flush Times	A SIT flush is performed over the wash station after each acquisition. Choose single flush, double flush, or disabled if you do not wish to perform a SIT flush
Sample Recovery	Allows any remaining sample that is left in the SIT after acquisition is complete to be deposited back into the well.
Stage Temperature	Select the plate stage temperature (4°–30°C).
Record Data Delay Time	Select the time in seconds you wish to preview data from a well before recording begins once you click Record.

Experiments in Plate Mode

****When running sticky samples, we recommend adding cleaning wells between samples to thoroughly clean the mixing probe. For example, add two wells, one with 10% bleach and the other with DI water. At the end of a plate,**



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

Classification:

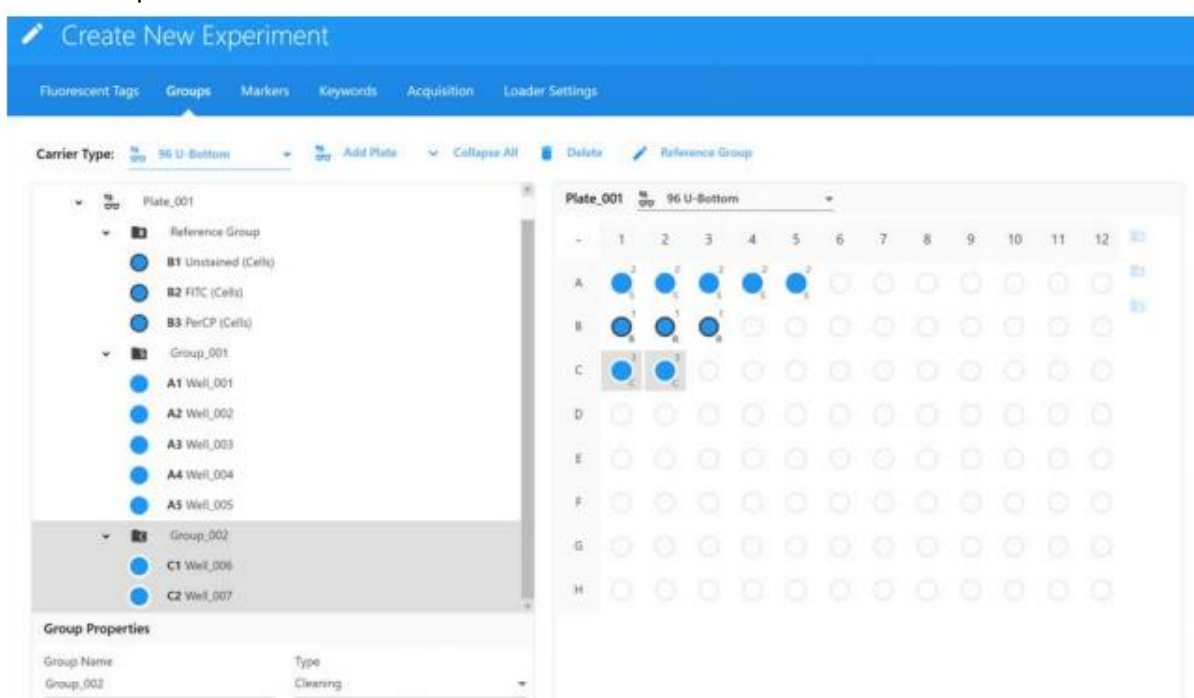
User Training

Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 15 of 20

consider adding a group of four wells, two with 300 μ L of 10% bleach and two with 300 μ L of DI water. Program a long mix (15 seconds at 1500 rpm) to thoroughly clean the mixing probe.

1. Ensure correct Carrier Type is selected, then Click **Add Plate**. A plate image will appear on the right and allow Groups to be added.



2. Click in the plate image to select a well, or click and drag to select multiple wells corresponding to the wells in the group you wish to add, then click the appropriate icon to the right of the plate to define the sample types in the group:
 - a. To add a group for samples, click **+**. Samples are labelled as **S**.
 - b. To add a group for reference controls, click **R**.
 - c. To add a group for cleaning well(s), click **C**. For example, you can add DI water to wells to rinse the SIT and clean the mixing probe to prevent carryover.
3. When all groups have been defined and samples are added, Click **Next**.
4. Continue with creating the New Experiment



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

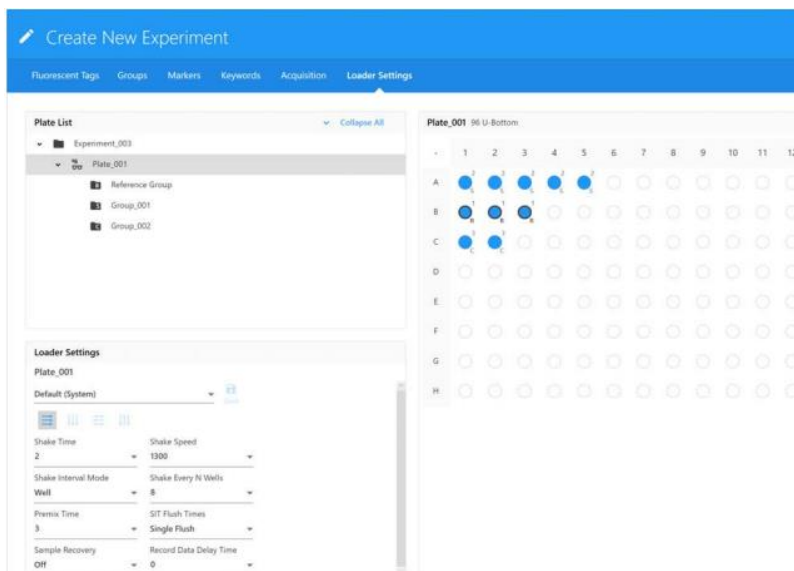
Classification:

User Training

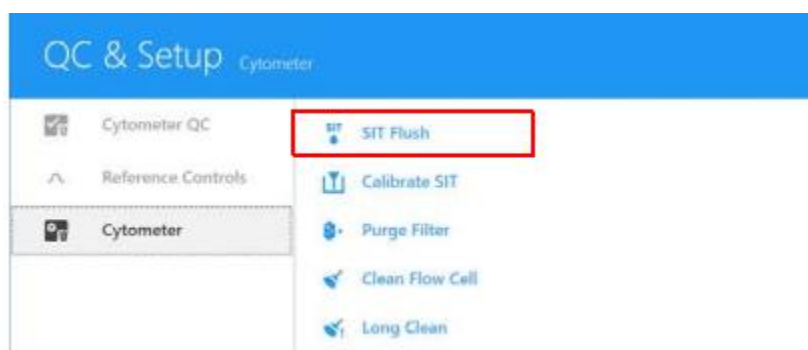
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4

Page 16 of 20

5. Define Loader Settings, then click **Save and Open**



6. Cleaning and Shutdown Procedures



End of Experiment Cleaning

- If operating in plate mode, you must switch to tube mode prior to performing Fluidics Shutdown
- If there is a user following you in the day, perform **Fluidics Shutdown** function in the Cytometer menu, DO NOT shut the instrument off. Simply, log off.



UNC Flow Cytometry Core Facility

Title: Cytek® Aurora User Training	Classification: User Training
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4	Page 17 of 20

- If last user of the day, navigate to the Cytometer menu and select **Fluidics Shutdown** and follow the wizard steps
 - **Turn instrument off by pressing the button on the left side.**
- Click Done and ensure the SIT is submerged in DI water.
- Logout of the software, then computer.

Clean Flow Cell (Sticky Samples/Clog)

Clean the flow cell after completing an experiment with a sticky dye such as propidium iodide, acridine orange, or thiazole orange. Cleaning the flow cell is also recommended after acquiring large quantities of highly concentrated bead solutions or if you suspect a clog. If running sticky samples, perform this procedure using Contrad instead of 10% bleach between experiments.

- In the Cytometer Menu, select **Clean Flow Cell**
- Follow instructions. If a clog is suspected, using Contrad instead of Bleach for the first step.

Monthly and As Needed Cleaning

Perform Long Clean function monthly (Staff only)

- Prepare at least 1 L of 10% Bleach and two tubes, one containing 3 mL 10% bleach and one containing 3 mL DI water.
- Locate Long Clean sheath bypass assembly and a new sheath filter, if needed.
 - Note: Cytek recommends replacing the sheath filter about once per year; the field service engineer will replace this for you during preventative maintenance visits.
- In the “QC & Setup” or “Acquisition module”, under the Cytometer tab, click on Long Clean and follow the instructions. For additional details, watch the video tutorial [Performing a Long Clean](#).

Contrad Soak as Needed (Staff Only)

Perform Contrad Soak as needed. The frequency depends on how often the system is used, and what types of samples are going through the system. If you notice increasing amounts of debris in your FSC vs SSC plot, and/or increasing FSC %rCV in the system's QC data, running this procedure will help clean out the flow cell.

- Reserve one hour for the next morning following the Contrad soak to wash out the Contrad from the system.
- Perform a Fluidics Shutdown using four tubes, each containing 3 mL 1% Contrad 70.
- After completing Fluidics Shutdown, unload the 1% Contrad tube and replace it with a fresh tube containing 3 ml of DI water.



UNC Flow Cytometry Core Facility

Title:	Classification:
Cytek® Aurora User Training	User Training
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4	Page 18 of 20

- Power off the system and close SpectroFlo as instructed in the pop-up window and leave the system alone so the flow cell can soak overnight.
- The next morning, power on the system, open SpectroFlo, log in, wait for the software to connect to the cytometer, and perform a Clean Flow Cell using two tubes each containing 3mL DI water.
- Load a new tube containing approximately 3mL of DI water onto the SIP and run it at high flow rate for 30 minutes.
- Perform QC and make sure it passes before running experiments.

7. Troubleshooting

Common troubleshooting actions. Contact staff if the suggestions do not help.

Observation	Possible Causes	Recommended Solutions
Daily QC does not complete	Wrong QC sample	Ensure you are running SpectroFlo QC beads of the correct lot
	Bead sample not properly mixed	Vortex QC tube for at least 5 seconds
	Bead sample too dilute	Concentrate sample or prepare fresh sample. 1 drop of beads into 300 uL filtered DI water
	Air Bubble in sample line	Run SIT Flush or Purge Filter
	Degraded Beads	Prepare fresh beads
	Warm-up not done	Let instrument warm up for at least 30 minutes. Run water on High for at least 5 minutes prior to QC
Daily QC failed	Air Bubble in fluidics	Run a Purge Filter
	Dirty Flow Cell	Run a Clean Flow Cell If problem persists, run Clean Flow Cell using 25%-50% Contrad 70 (1%-5% Contrad 100), followed by DI water
	Questionable sample prep	Make fresh beads
	Sample not diluted in same fluid as sheath	Dilute sample in filtered DI water
Air in Sheath filter	Cytometer was not in use for a prolonged period	Run a Purge Filter . Check all sheath connections are securely attached. Check for leaks or cracks in the sheath plenum.
	Empty Sheath tank	Refill sheath tank. Run a Purge Filter
No events displayed (flow rate lower than expected)	Sample ran dry in tube	Replace tube. Run SIT Flush
	Sample not properly mixed	Mix the sample
	Clogged SIT	1. Run a SIT Flush . 2. Run Clean Flow Cell with 10% bleach followed by DI water If clog persists, replace sample line
	SIT distance is inappropriate (touching bottom of tube or too high)	Run Calibrate SIT
	Insufficient gain for threshold parameter	Adjust the gain for the threshold parameter (FSC by default)



UNC Flow Cytometry Core Facility

Title:	Classification:
Cytek® Aurora User Training	User Training
Effective Date: 09/16/2020 Revision Date: 11/29/2023 ID: UT SOP008.4	Page 19 of 20

No events displayed (flow rate normal)	Threshold too high	Lower threshold
	Laser Delay not correct	Ensure laser delay values match those from daily QC run. Rerun Daily QC if values do not match.
	Threshold set to incorrect parameter	Set threshold to appropriate parameter for application (typically FSC)
	Gated plot with no data in gate	Delete or move the gate
Low sample event rate	Threshold too high	Lower threshold
	Insufficient gain for threshold	Adjust gain for threshold parameter
	Sample not properly mixed	Mix sample to suspend cells homogenously
	Sample too dilute	Concentrate sample. Set Flow Rate to Medium or high
	Clogged SIT	1. Run a SIT Flush . 2. Run Clean Flow Cell with 10% bleach followed by DI water If clog persists, replace sample line
Erratic Event rate	Partially blocked SIT	Run SIT Flush Run Clean Flow Cell
	Sticky/Clumpy sample	Vortex, filter, or disaggregate the sample
Data in scatter parameters appear distorted	Air bubble in flow cell	Run SIT Flush
	Air in sheath filter	Run a Purge Filter
	Dirty flow cell	Run a Clean Flow Cell
	Poor sample health	Check the viability of the cells
	Hypertonic buffers	Check the pH of the buffers and fixative
	Incorrect instrument settings	Optimize the instrument settings
High CVs	Air bubble in fluidics	Run a SIT Flush and a Purge Filter
	Sample flow rate set to High	Set sample rate to Low or Medium
	Dirty Flow cell	Run a Clean Flow Cell . If problem persists, run a Clean Flow Cell using 25%-50% Contrad 70 (1%-5% Contrad 100), followed by DI water
	Questionable sample prep	Verify the sample prep technique
	Air in sheath filter	Run a Purge Filter
	SIT hitting bottom of well/tube	Run Calibrate SIT

8. References

- [Aurora Quick Reference Guide](#)
- [Aurora User Guide](#)
- Cytek Resources- [Instrument Cleaning Recommendations](#)

Additional Resources can be found within the [Aurora User Community Forum](#)



UNC Flow Cytometry Core Facility

Title:

Cytek® Aurora User Training

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Effective Date: 09/16/2020 **Revision Date:** 11/29/2023 **ID:** UT SOP008.4

Page 20 of 20

9. Revisions

SOP version Number	Date	Tracked Changes (clearly list changes made and why)	Employee
UT SOP 008.2	1/5/2021	Updates Cleaning Protocols	Ayrianna Woody
UT SOP 008.3	4/8/2022	General Updates throughout; formatting	Ayrianna Woody
UT SOP 008.4	11/29/2023	Added Loader and Troubleshooting section	Ayrianna Woody