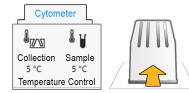


Create New Experiment



- Ensure MA900 is calibrated for sorting
- Install collection tube holder and activate temperature control if needed

- Under File > New, select a Template (Blank or Existing)
- Select the desired parameters (488 laser must stay on)
- Click Create Experiment
- Start Compensation Wizard to run single-color controls or run your sample

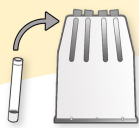
Follow Compensation Wizard

- Best Practice: Filter samples prior to loading into MA900
- Run the unstained sample & adjust sensor gains
- Set the Recording Stop Condition to record enough data
- Go to the Compensation Tab & click Calculate Matrix
- Click Finish to proceed to the first sample tube worksheet

Gate Sample

- Load your filtered sample and click **Start** to preview
- As needed, adjust FSC, BSC & Threshold settings
- Click **Restart**, accumulate some data, and **Pause** sample
- Create plots (e.g. Cells > Singlets > Fluorescence plots)
- Advanced Options: Adjust plot scaling, do manual compensation, & create plot overlays
- Create Sort Gates & rename them as needed

Sort Set-up



- Insert labeled tubes (with collection buffer) into the Tube Holder in the Collection Chamber & close the door.
- Under Sort Control, click Load Collection & set Method (e.g. 5mL for 4-way)
- Set Mode (for details, see *MA900 Sorting Modes Guide*)
- Open Sort Settings Window & assign Sort Gates (assign rare subsets to Far L and Far R streams)
- Set Stop Count (0 = non-stop sorting)
- Important: Set Data Recording conditions

Sorting

- Click **Resume** and **Restart** to check Gating, Event rate, Sample Pressure, & **Droplet Breakoff**
- Do not exceed the suggested Event Rate (for details, see *MA900 Nozzle Guide*)
- In the Sort Control Panel, click **Sort & Record Start** to initiate sorting



- Monitor: the Event rate, Stream, Statistics (efficiency), Sample & Collection Volumes
- **IMPORTANT:** Stop the sample before it runs dry. If needed, run a Purity Check
- Clean MA900 for the next user or Shut Down MA900 & turn off air supply

Finish