

Basic Cell Cleaning

Cell cleaning of the Nano DSC may be performed a number of ways, depending on the extent and nature of the contamination. Protein precipitation may usually be removed by the following method. You may ask BCF staff for Decon 90.

1. Fill both cells with 15% residue-free detergent, such as Decon 90.
2. Pressurize the cells to 3 atm.
3. Specify a scan range from 25°C to 80°C. Set the heating scan at 2°C/minute, followed by a cooling scan at 0.5°C/minute.
4. When the Nano DSC to cool to idle temperature (25 °C), depressurize the cells.
5. Remove the cleaning solution from both cells, and flush the cells with ~1 liter of deionized water.
6. Fill the cells with degassed deionized water and run a scan up and down between 0 and 110°C to condition the cells.
7. Discard the water from step 6 and refill the cells prior to normal use.