

Nano DSC III Training Checklist

Application Date: _____ ☐ Old Users

Reservation Training Date: _____

Name: _____ Lab PI: _____ Affiliation: _____

Position: _____ Phone: _____ E-mail: _____

Sample (in the sample cell; at least 0.7mL):

☐ Protein ☐ dsDNA ☐ ssDNA ☐ others _____

Concentration: _____ MW: _____

Buffer: _____ (about 15 mL for reference and wash)

* The concentration of sample starts at 1mg/mL if possible.

Training checklist:

- ☐ I have read "Differential Scanning Calorimeter (nano DSC) User's Guideline" and will follow the rules therein.
- ☐ M101 class lectures
- ☐ M101 hands-on course
- ☐ Differential Scanning Calorimeter 6300 N-DSC III User's Manual, Nano-DSC Software Getting Started Guide, NanoAnalyze Software Getting Started Guide.
- ☐ Reservation procedure:
- ☐ Powering up and shut down process of the instrument.
- ☐ Degas process
- ☐ Sample cell and reference loading technique
- ☐ Nano DSC operation software, DSCRun: Setup, Monitor, Data, System
- ☐ Conditioning run, baseline scan, sample scan
- ☐ Pressurize↑ and depressurize↓
- ☐ Sample cell and reference cell cleaning process by vacuum pump.
- ☐ Refill sample and reference cells with water.
- ☐ Data analysis using NanoAnalyze, baseline subtraction, model fitting T_M , C_p , ΔH
- ☐ Data file path and data back up
Directory C:/NDSCData/_____
- ☐ Manager signature: _____

I certify that I have received the training sections specified in the training checklist above.

Signature: _____

Date : _____