iTC200 Training Checklist

Application Date:
Reservation Training Date:

Name: Lab PI: Affiliation:

Position: Phone: E-mail:

Molecule in the sample cell (at least 300 μL):

☐ Protein ☐ DNA ☐ small molecule ☐ others _____

Concentration available: _____ MW: _____ Buffer : _____

Molecule in injection syringe (at least 50 x 2 μL):

☐ Protein ☐ DNA ☐ small molecule ☐ others _____

Concentration available: _____ MW: _____

Buffer – in the same buffer as the macromolecule.

Estimate of K_D _____

Training checklist:

☐ I have read **MicroCal iTC200 User's Guideline** and will follow the rules therein.
☐ M103 or M103E lectures
☐ M103 or M103E hands-on course
☐ iTC200 MicroCalorimeter User's Manual and ITC Data Analysis in Origin Tutorial Guide.
☐ Reference lists
☐ Reservation procedure
☐ Inspecting for possible crack on syringe
☐ Powering up and shut down process of the instrument.
☐ ITC200 operation software:
☐ ITC controls window: Experimental Design, Advanced Experimental Design, Instrument Controls, Real Time Plot and Set Up.
☐ Thermostat Control, Pipette Control and Equilibration options
☐ ThermoVac degas (optional)
☐ Reference cell loading (optional)
☐ Sample cell loading
☐ Syringe fill and Injection syringe loading: Open and close fill port, Purge and refill
☐ Real Time Plot: thermostat, Stirring and/or Final baseline equilibration, run state.
☐ Sample cell cleaning process by Washing Module (User's Manual) and injection syringe cleaning process, Air blow drying process
☐ Data analysis using Origin 7.0 (MicroCal LLC, ITC) software
ITC Data Analysis in Origin Tutorial Guide:
Raw ITC window: ITC Main Control menu, Baseline, Integrate
DeltaH window: Data control menu and Model fitting menu
Fitting parameters: N, K(K_A), H, Final Figure
☐ Data file path and data back up:
Folder: C:/ITC200/Data/_____
☐ Manager Signature:

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

Signature: _____

Date: _____

Chris Jao