

General guideline for sample requirements

The MINIMAL requirements can be summarized (FOR A SINGLE TITRATION):
(if possible higher conc. should be used to assure a better signal)

Macromolecule solution:	2.1 mL of 3 μ M (for tight binding <i>i.e.</i> binding where K_d is smaller than 1 μ M); otherwise 15 μ M (or higher)
Titrant:	700 μ L at concentration 10 times higher than the concentration of macromolecule
Additional Buffer	20 mL

Detail guideline for sample preparation is given in “ITC_sample_preparation” (as suggested by MicroCal- manufacturer of the ITC instrument).

The estimation for protein and ligand concentration needed for ITC experiment can be made following the suggestions discussed in “Experimental Consideration_ITC”.

*(both documents are postedas *.pdf files and can be printed flowing the links from the ITC WebPage of Biophysical Resource)*

The ITC instrument in Biophysical Resource has a 250 μ L titration syringe.