

- Send an email to the platform Manager to request a training.
- Users have to fill the online “booking request form” on the ISBG webpage: <http://www.isbg.fr/caracterisations-biophysiques/plateforme-biophysique-cibb/?lang=fr> When the booking is validated, the user will receive a confirmation email and their name will appear on the booking calendar.
- The equilibration of the system/column is done overnight. Usually, the column is connected at the end of the afternoon the day before the experiment and equilibrated overnight at 0.2 mL/min.
- Precaution for the use of the columns
 - Flow used is 0.5 mL/min
 - Column to be connected on the MALLS system has to be in water or buffer
 - Elution buffer should be de-gazed and filtered at 0.22µm
 - The platform DO NOT run columns upside down & DO NOT accept packed columns.
- The biophysical platform do not provide SEC columns, user have to bring their own columns. Please note that the column listed below are accepted:
 - Superdex 200 30/100
 - Superdex 75 30/100
 - Superose 6 30/100
 - If another column has to be used, please contact the Platform Manager before.
- Note that:
 - the last injection of the day should not be done after 4:00 pm in order to allow time to set up the equilibration of the next user.
 - 1 run takes 50 min at 0.5 mL/min
 - one buffer and one column per day
 - Book number of days accordingly
- Instructions for the samples
 - The sample volume required for one injection is 55 µl
 - The purity of the sample should be 90%
 - The sample concentration should be between 2 and 10 mg/mL
 - Samples have to be centrifuged and/or filtered before injection
 - Samples are not stored
 - A guideline concentration is 2 mg/ml of protein and a minimum volume of 50 µl is required. Lower concentrations may not give very good light scattering signal (sample dependant). Small proteins (< 15 kDa) will give low light scattering signals and may need a higher concentration.

- For each experiment, data acquisition record must be completed on the SEC-MALLS logbook:
 - Record the details of the experiments
 - Name / Surname
 - Date
 - Column
 - Buffer
 - Light Scattering (LS) Value (should be ~ 0,03)
 - List of experiments collected:
 - ExpXXXX BSA 4 mg/mL 50uL
 - Record any anomalies

- Standard protocol for using the SEC-MALLS system and reference manuals for the software ASTRA can be consulted on site.

- At the end of each booking period, you must put the system in filtered/de-gazed H₂O, Ensure that the experience stops

DATE ET VISA DU RESPONSABLE APPAREIL : Caroline Mas 26/03/2021