Sample Spec Sheet for BioSAXS Page number (/)

This file name should be BioSAXS“proposal number”_sample.pdf

ex: BioSAXS2021B0000_sample.pdf

Please copy and add this page, if you have more than three types of samples.

Sample type ID				
Objective & purpose *1				
Experimental time required (minimum allocation unit: 3shifts)				
Target	Name of protein etc.			
	Types(WT/mutation)			
	Assembly of the sample *2			
	Molecular weight (total)			
	Expected shape *3			
	Expected max. length (Å)			
	Preparation method *4			
	Safety *5			
Sample solution	Monodisperse or polydisperse?			
	Volume & Max. concentration			
	Buffer composition			
	Storage method and expiration date of purified samples			
	Time required for sample preparation			
Preliminary study	How to check finale purification *6			
	Do you have the atomic structure by Crystallography, CryoEM or NMR?			
	If you have the atomic structure, is it a whole structure or a part of the structure?			
Meas. condition	Measurement temprature *8			

*1: Select from following, A: Guinier analysis, B: Kratky analysis, C: Dummy atom modelling, D: Rigid body modeling, E: Other, Please dscribe its detail. Ex. Ensemble Otimization Method for flexible and disordered proteis. Flexible normal mode analysis (NMA) refinement of high-resolution protein methods etc.

*2: Ex. Monomer, Heterodimer, Maltisubunit complexes, multidomain protein complexes etc.

*3: Select from following, A: Grobular, B: Disk, C: Rod, D: Random or fragile, E; unknown, F: Other, [Please dscribe its detail.]

*4: Select from following, A: E. coli expression, B: Baculovirus-insect cell expression, C: Human cell expression cf. HEK293, D: Other [Please describe its detail.]

*5: Ex. Protein toxin, poisonous and deleterious substances in buffer, Contamination of baculovirus.

*6: Select from following, A: SEC, B: SDS, C: Ultracentrifuge, D: DLS, E: Other , Please describe its detail.

*7: If other, Please describe its detail.

*8: Static meas. at 4 ~ 50 deg., SEC-SAXS at 20 deg.