

Quality Control (QC) of purified proteins Request Form

(Please fill in one form per protein)

Laboratory name:

Main contact:

Main contact phone:

Head of project:

Address:

Main contact mail:

What we propose:

The process will provide you with a full qualitative control (QC) of your purified protein and can help you identify conditions in which it is best behaved. We propose 2 levels of analysis:

Choose your type of request

Initial sample assessment

☐ **Option a:**

- Aggregation level (UV spectrum + DLS)
- Protein integrity (MALDI)
- Purity (MALDI, UV, electrophoresis)
- Quantification (UV, IR)

☐ **Option b:**

- Aggregation level (UV spectrum + DLS)
- Protein integrity (MALDI)
- Purity (MALDI, UV, electrophoresis)
- Quantification (UV, IR)
- +
- Homogeneity and oligomerization state determination (SEC-SLS)

☐ **None**

Sample optimization

☐ **Option a:**

Solubility and stability tests:

- Buffer screening (DLS / Viscosizer)

☐ **Option b:**

Solubility and stability tests:

- Buffer screening (DLS)
- +
- Sample storage conditions at 4°C, 20°C, -80°C, 4°C, 37°C (DLS)

☐ **Option c:**

Solubility and stability tests for structural studies:

- Buffer screening (DLS + nanoDSF)

☐ **None**

Wished date of experiment

Sample description

Name of protein

Protein origin

Type of produced protein

Protein concentration - select the method used

Please give: The available concentration and volume

or total amount (if freeze-dried protein)

Storage temperature (-80°C, -20°C, 4°C)

Final buffer composition

Please insert the full peptidic sequence (If your protein contains tags and/or linker or any changes to the sequence, please take them into consideration) :

Please tick all the relevant boxes defining the downstream application

☐ Antibody production☐ Biochemical studies☐ Molecular Biophysics☐ Structural determination☐ Other:

Did the downstream application succeed?

Safety Risks

Group of risk of the original organism: ☐ group 1 ☐ group 2 ☐ group 3 ☐ group 4http://www.esst-inrs.fr/3rb/main.php?file=arrete_du_18_juillet_1994_et_ses_modifications.htmIs the sample recombinant? ☐ No ☐ Yes

Please specify the host of expression:

Host's group of risk: ☐ group 1 ☐ group 2 ☐ group 3 ☐ group 4Is the sample an active virus? ☐ No ☐ YesDoes the sample present a virulence factor? ☐ No ☐ YesIs the sample a prion protein? ☐ No ☐ YesIs the sample toxic? ☐ No ☐ YesDoes the sample present any risk to human health? ☐ No ☐ Yes ☐ UncertainDoes the sample present any risk to the environment? ☐ No ☐ Yes ☐ Uncertain

Is there any danger associated with the reception, the handling or the disposal of the protein sample?

☐ No ☐ Yes ☐ Uncertain

Please save the form and send it to qcprotein@pasteur.fr