

Quality Control (QC) of purified proteins Request Form

(Please fill in one form per protein)

Laboratory name:

Main contact:

Main contact phone:

Unit Code:

Head of project:

Address:

Main contact mail:

Main budget Code:

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 4

http://www.esst-inrs.fr/3rb/main.php?file=arrete_du_18_juillet_1994_et_ses_modifications.htm

Is the sample recombinant? No Yes Please specify the host of expression:

Host's group of risk: group 1 group 2 group 3 group 4

Is the sample an active virus? No Yes

Does the sample present a virulence factor? No Yes

Is the sample a prion protein? No Yes

Is the sample toxic? No Yes

Does the sample present any risk to human health? No Yes Uncertain

Does 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