

## 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 4

[http://www.esst-inrs.fr/3rb/main.php?file=arrete\\_du\\_18\\_juillet\\_1994\\_et\\_ses\\_modifications.htm](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](mailto:qcprotein@pasteur.fr)**