SCOPE

The information in this document is outlined to,

1. Ensure common understanding of the purpose of the pilot/demo project,
2. Facilitate rapid turn-over time for the project,
3. Optimize the likelihood of a positive outcome in first attempt.
4. PROJECT BACKGROUND

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| Contact details (Company/University, name, email and phone) |
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| Short project background. *Please briefly describe the relevant research context. No need for full details, a “Headline level” only is perfectly fine. References/Articles for background are welcome.* |
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| Objective of the pilot project. *Please describe the purpose of the experiments you would like to see data from.* |
|  |
| Evaluation criteria. *Please describe how you will evaluate the results. What reference data and/or technology will you compared to? If no existing data is available, how would you otherwise describe a successful outcome of the experiment?* |
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1. **GENERAL ASSAY INFORMATION**

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| Assay conditions. *Assay buffer/sample matrix, detergents, pH,…* |
| See information above |

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| Additional relevant information. *Expected* KD*, concentrations used in other assays, etc. (Published papers can be attached at the end of the form.)* |
| See information above |

1. **GENERAL REQUIREMENTS FOR SAMPLES**

Unlike what you may be accustomed with from other technologies, the Fida 1 does not impose any restrictions on choice of buffer. You can run your assay in whatever buffer or liquid sample matrix you would like.

**Need to have:**

* 50 mL assay buffer (reducing agents can be provided by Fidabio)
* Analyte molecule: 0.5 mL, minimum conc. 20 x *Kd*
* Indicator molecule:
  + If labeled: 0.1 mL, minimum conc. 100 nM
  + If un-labelled: 200 µL, minimum conc. 1-2 mg/mL
  + In un-labelled: Stability data at pH 8.5
* Information about special safety precautions related to samples and/or buffer

*NB! If sending un-labelled indicatory molecules, the buffer must be amine free (e.g. no Tris) as Fidabio will label primary amines on Lysine, and other free amines will interfere with the labelling.*

1. **TECHNICAL INFORMATION ABOUT THE SAMPLE(S)**

In FIDA terminology, the labelled molecule is called “indicator” and the un-labelled molecule “Analyte”.

Labelling the smaller molecule of the two, provides the biggest detection window when monitoring size change upon binding. It is however also an option to choose labelling the bigger molecule as the Fida 1 instrument detects down to 5% change in hydrodynamic radius.

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| Only one sample per entry (if more than one indicator molecule, please duplicate the table) | | | | |
| INDICATOR molecule or protein  Name (as indicated on the tube): | | | | |
| Molecular weight | Concentration before/after labeling | | Extinction coefficient | pI |
| Buffer and storage (Buffer should be provided-minimum 50ml) | | | | |
| Storage buffer ( lyophilized, please indicate original buffer):  Is there Tris in the buffer?  Need reducing agent?  no  if yes, please specify reducing agent and concentration: | | Storage temperature  2-8 °C  -20 °C  -80 °C  Does it stand freeze/thaw cycles? How many? | | Storage location  Only for internal use |
| Sequence information *(If you can share it)* | | | | |
| Uniprot No. /Sequence | | | | pdb file |
| Purity of sample | | | | |
| > 95 %  > 80 %  > 50 %  < 50 %  complex solution (please specify): | | | | |
| Tags/fluorescent label | | | | |
| Tags  no  His  Strep  Biotin  other (please specify): | | | | **Fluorescent label/fluorescent molecule**  no *(If not fluorescently labeled, make sure there’s no Tris in the buffer otherwise the NHS labeling won’t work!)*  yes (please specify): |
| Protein quality/activity  Have the quality/activity been checked before to ship the sample to Fidabio?  No  Yes (Please specify method) | | | |  |

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| --- | --- | --- | --- | --- |
| Only one sample per entry (if more than one indicator molecule, please duplicate the table) | | | | |
| ANALYTE molecule or protein or ligand or vesicle  Name (as indicated on tube): | | | | |
| Molecular weight | Concentration | | Extinction coefficient | pI |
| Buffer and storage | | | | |
| Storage buffer ( lyophilized, please indicate original buffer):  Need reducing agent?  no  if yes, please specify reducing agent and concentration: | | Storage temperature  2-8 °C  -20 °C  -80 °C | | Storage location  Only for internal use |
| Sequence information | | | | |
| Uniprot No. /Sequence | | | | pdb file |
| Purity of sample | | | | |
| > 95 %  > 80 %  > 50 %  < 50 %  complex solution (please specify): | | | | |
| Protein quality/activity  Have the quality/activity been checked before to ship the sample to Fidabio?  No  Yes (Specify method) | | | | |