RISK ASSESSMENT FORM FOR BLOOD AND OTHER HUMAN SAMPLE MATERIALS (HUMRA)

- This form should be used for identification and characterization of risks involved in working with human (and monkey) blood and any other sample material, including primary cell cultures of human origin.
- **Note that this form can neither be used for any cultivation of microorganisms (then BARA forms should be used) nor for genetically modified micro-organisms!**
- The blood or other human sample materials should be characterized in Part A. Each type of method involving blood or other human sample materials should be evaluated in Part B. Note that more than one form B might be needed for different activities with the same material. B1 applies in the laboratory setting and B2 when performing animal experiments.
- Please read BMCs [rules for the handling of blood and other human sample materials](#) before performing this risk assessment.
- For chemical risk assessments, see the risk assessment form in "KLARA"

When finished, print and place this form in the lab so that each researcher can consult it before conducting experiments.

### A) CHARACTERIZATION OF THE SPECIMEN(S)

<table>
<thead>
<tr>
<th>Department:</th>
<th>Group leader / PI:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room number(s):</td>
<td></td>
</tr>
<tr>
<td>Lab responsible person (if applicable):</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description of specimen</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Source of the specimen</td>
<td></td>
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</tbody>
</table>

| Special properties of the specimen(s) | Specific risks to be considered |
### B1) - LABORATORY WORK

<table>
<thead>
<tr>
<th>General description of the work</th>
<th>Reference number / version (optional):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method description(s) including type of work (cultivation etc.): Please elaborate</td>
<td></td>
</tr>
</tbody>
</table>

**Which part(s) of the handling possesses the highest risk of infection (e.g. propagation, sonication, centrifugation, use of needles)?**

**Safety procedures to minimize the risk of laboratory infections:** e.g. how to avoid splashes and sharp objects

**Handling procedures for the specimen:**

- **Protective gloves**
  - Specification of gloves:
  - During the whole method. ☐ During parts of the method, which part(s)?

- **Protective clothing**
  - Please specify:
  - During the whole method. ☐ During parts of the method, which part(s)?

- **Splash protection**
  - Please specify (e.g. face shield, standing shield, goggles):
  - During the whole method. ☐ During parts of the method, which part(s)?

- **Work in a biological safety cabinet**
  - ☐ Class 1 ☐ During the whole method. ☐ During parts of the method, which part(s)?
  - ☐ Class 2 ☐ During the whole method. ☐ During parts of the method, which?

**Other, please elaborate:**

**Does the method involve hazardous chemicals (including isotopes)?**

- ☐ No
- ☐ Yes, which? ☐, which risk statements? ☐ Does the handling of dangerous chemicals need a separate risk assessment? If yes; name of the risk assessment:

**Liquid waste.**

- Please specify type of liquid waste generated
- How is liquid waste handled?
- Does it contain mixed sources e.g. antibiotics/chemicals that need special considerations?

- ☐ No
- ☐ Yes, which? ☐, how should this be handled?

**Solid waste.**

- Please specify type of solid waste generated.
- How is solid waste handled?

**Suitable disinfection method of lab area/ biosafety cabinet.**

**Requirements for the laboratory.**

- **Are all personnel working in this lab vaccinated against Hepatitis B?**
  - If other relevant immunization is available, are all personnel working in this lab vaccinated?

- ☐ Yes
  - ☐ No. Why:
  - ☐ Yes
  - ☐ No. Why:

**Emergency procedures (in case of accident, spill, theft etc.)**

**Name and phone number of contact person (in case of accident):**

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1. Risk statements for dangerous chemicals can be retrieved from the MSDS (material safety data sheet) section 15 or from the bottle/container, for example Flammable, Causes burns etc.
2. Waste management and sewage rules at BM can be found at the LUs homepage [http://www.medarbetarwebben.lu.se/stod-och-verktys/lokaler-och-markering/avfall-farligt-avfall-och-kallsortering] including rules on how to deactivate antibiotics and which chemicals can be poured out in the sewage. Note that chemicals that are hazardous to work with are not always the same as those that needs separate waste sorting.
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Who is in charge of inventory control (mandatory)?</td>
<td></td>
</tr>
<tr>
<td>Laboratory work follows Good Microbiological Praxis?</td>
<td></td>
</tr>
<tr>
<td>How many employees are performing the experiments (or otherwise involved)?</td>
<td></td>
</tr>
<tr>
<td>Are all employees educated in the risks of infection and routes of transmission?</td>
<td>Yes/No, why not?</td>
</tr>
<tr>
<td>Are there employees needing special consideration? E.g. pregnant employees, dish washing personnel, cleaners, and service personnel.</td>
<td></td>
</tr>
<tr>
<td>Handling and safety instructions available? ³</td>
<td>Yes/No, why?</td>
</tr>
<tr>
<td>Other information:</td>
<td></td>
</tr>
<tr>
<td>Name in print. Note! it is recommended that more than one person evaluates the organism and the risks</td>
<td></td>
</tr>
<tr>
<td>Group leader, signature.</td>
<td></td>
</tr>
</tbody>
</table>

For the relevant legislation, see AFS 2005:1 "Microbiological Work Environment Risks -Infection, Toxigenic Effect, Hypersensitivity" with changes in AFS 2012:7 and AFS 2014:7. Supplementary information, containing further guidelines is available at https://www.av.se/arbetshallarbete-och-inspektioner/publikationer/foreskrifter/mikrobiologiska-arbetshallrisker-smitta-toxinpaverkan-overkanslighet-afs-20051-foreskrifter/

If you have further questions, please read more at

http://www.med.lu.se/intramed/stoed_verktyg/haelsa_miljoe_saekerhet_hms/emv_haelsa_miljoe_saekerhet
http://www.med.lu.se/intramed/stoed_verktyg/haelsa_miljoe_saekerhet_hms/ikvl_haelsa_miljoe_och_saekerhet
http://www.med.lu.se/intramed/stoed_verktyg/haelsa_miljoe_saekerhet_hms/ilml_haelsa_miljoe_saekerhet

² For definition of God Microbiological Praxis, please see AFS 2005:1 with changes in AFS 2012:7 and AFS 2014:7 §24
³ An example of what must be included in the written instructions can be found at the end of the document

"Överenskommelse om gemensamma minimikrav vid arbete med humant blod och annan primär human vävnad vid BMC"