

Appendix 1 –

1.0 Experimental Procedures

Choose all relevant, safety measures that will be used in your lab to mitigate the risk of exposure, aerosol generation and/or release of biohazards

Experimental risk procedure(s)/equipment	Safety measures and techniques used to mitigate the risk of exposure, minimize aerosols and/or release of biohazards			
Propagating pathogen (isolation, culture, growth and/or enhancement) <input type="checkbox"/> Applicable <input type="checkbox"/> Not applicable	<input type="checkbox"/> Use aseptic techniques to work on open bench between burners	<input type="checkbox"/> Use Biological Safety Cabinet (BSC) for all activities	<input type="checkbox"/> Use BSC for only activities that may produce aerosols or have splash potential	<input type="checkbox"/> Use of additional /alternate measures (if any)
Using inoculation loops <input type="checkbox"/> Applicable <input type="checkbox"/> Not applicable	<input type="checkbox"/> Use reusable, completely closed, inoculation loop	<input type="checkbox"/> Use single use sterile disposable loops	<input type="checkbox"/> Use micro incinerator for sterilizing the loop	<input type="checkbox"/> Use of additional /alternate measures (if any):
Pipetting Aids (work inside BSC) <input type="checkbox"/> Applicable <input type="checkbox"/> Not applicable	<input type="checkbox"/> Use -proper pipetting techniques to prevent aerosol generation	<input type="checkbox"/> Use appropriate decontamination procedures for pipette aids	<input type="checkbox"/> Use plastic – backed absorbent liner	<input type="checkbox"/> Use filtered serological pipettes with pipette aids and filtered pipette tips with micropipettors
Centrifuging <input type="checkbox"/> Applicable <input type="checkbox"/> Not applicable	<input type="checkbox"/> Use tightly closed sealed safety cups/ buckets or rotors inside centrifuge	<input type="checkbox"/> Use sealed rotor heads only	<input type="checkbox"/> Use BSC only to unload centrifuge rotors/ safety buckets	<input type="checkbox"/> Use dedicated BSC housing only centrifuge (not used for any other work. Specify the type and class of BSC used)
Opening caps or plugs of lyophilized vials or tubes after mixing using blenders, centrifuges homogenizers, mixers, shaking incubators, <input type="checkbox"/> Applicable <input type="checkbox"/> Not applicable	<input type="checkbox"/> Use barrier shields (e.g. plexiglass shields)	<input type="checkbox"/> Use disinfectant moistened swab around tubes or vials	<input type="checkbox"/> Use additional layer of PPE example: face shield	<input type="checkbox"/> Use BSC at all times to open tubes or vials

<p>Blending and mixing</p> <p><input type="checkbox"/> Applicable</p> <p><input type="checkbox"/> Not applicable</p>	<p><input type="checkbox"/> Use lab grade blender with tight-fitting gasketed lid and leak-proof bearings</p>	<p><input type="checkbox"/> Use towels moistened with disinfectant around the equipment</p>	<p><input type="checkbox"/> Use any other primary containment or dedicated BSC housing only these equipment (not used for any other work. Specify the type and class of BSC if used</p>	<p><input type="checkbox"/> Use of additional / alternate measures (if any)</p>
<p>Sonication</p> <p><input type="checkbox"/> Applicable</p> <p><input type="checkbox"/> Not applicable</p>	<p><input type="checkbox"/> Use contained vessel to house Sonicator</p>	<p><input type="checkbox"/> Use cup horn enclosures</p>	<p><input type="checkbox"/> Use dedicated BSC housing only Sonicator (not used for any other work). Specify the type and class of BSC used:</p>	<p><input type="checkbox"/> Additional /alternate measures used (if any):</p>
<p>Microtomy</p> <p><input type="checkbox"/> Applicable</p> <p><input type="checkbox"/> Not applicable</p>	<p><input type="checkbox"/> Use disposable blades</p>	<p><input type="checkbox"/> Use troughs installed at the end of bench</p>	<p><input type="checkbox"/> Use cut resistant gloves and slip resistant shoe covers</p>	<p><input type="checkbox"/> Have dedicated low traffic area</p>
<p>Using needles, syringes and sharps</p> <p><input type="checkbox"/> Applicable</p> <p><input type="checkbox"/> Not applicable</p>	<p><input type="checkbox"/> Use protocol of - No recapping, bending, breaking, shearing or removal of needles from disposable syringes prior disposal in sharp container</p>	<p><input type="checkbox"/> Use one handed needle recapping method</p>	<p><input type="checkbox"/> Use protocol of placing syringes in a tray or protective container for holding between injections</p>	<p><input type="checkbox"/> Use of safety engineered sharps e.g. needleless device or retractable blades or sheath lancets etc. Additional /alternate measures used (if any):</p>

2.0 Decontamination and Waste Management

Please indicate specific methods used for decontamination/disposal of reusable contaminated materials, disposable contaminated materials, and waste. For various classes of chemical disinfectants, advantages, disadvantages and their relative susceptibility, please refer to disinfectant tables in [Biosafety manual](#).

2.1 Chemical Decontamination

Chemical name	Dilution used (%)	Potency (min)	Shelf life
<input type="checkbox"/> Hydrogen Peroxide (Accel TB activated)	<input type="checkbox"/> As it is (with no dilution) <input type="checkbox"/> 3-6 % <input type="checkbox"/> Wipes <hr/>	<input type="checkbox"/> 30 sec – 5mins <input type="checkbox"/> 10 -30 mins <hr/>	<input type="checkbox"/> 2 yr. undiluted <input type="checkbox"/> 5 days diluted
<input type="checkbox"/> Hydrogen Peroxide (Virox)	<input type="checkbox"/> 2% <input type="checkbox"/> 10% <hr/>	<input type="checkbox"/> 10 -30 mins <hr/>	<input type="checkbox"/> 2 yr. undiluted <input type="checkbox"/> 5 days diluted
<input type="checkbox"/> Virkon S	<input type="checkbox"/> 3-6 % <hr/>	<input type="checkbox"/> 10 -30 mins <hr/>	<input type="checkbox"/> 2 yr. undiluted <input type="checkbox"/> 5 days diluted
<input type="checkbox"/> Sodium Hypochlorite (Bleach) (5.25% -6.15%; %0 - 60,000 ppm available Chlorine)	<input type="checkbox"/> 0.5% <input type="checkbox"/> 1% <input type="checkbox"/> 2% <input type="checkbox"/> 10% <hr/>	<input type="checkbox"/> 10 -30 mins <input type="checkbox"/> overnight <hr/>	<input type="checkbox"/> 3 months undiluted <input type="checkbox"/> 24 hrs. diluted
<input type="checkbox"/> Ethyl alcohol <input type="checkbox"/> Isopropyl alcohol	<input type="checkbox"/> 70% <hr/>	<input type="checkbox"/> 10 sec as surface disinfectant <hr/>	<input type="checkbox"/> 180 days undiluted <input type="checkbox"/> 1 week diluted
<input type="checkbox"/> Chlorhexidine	<input type="checkbox"/> 4% <hr/>	<hr/>	<hr/>
<input type="checkbox"/> Other disinfectant <hr/>	<hr/>	<hr/>	<hr/>

2.2 Waste Management

All contaminated or potentially contaminated materials are to be decontaminated prior to disposal, reuse or removal from service. For each type of material, specify means of decontamination

Type of Material	Autoclave	Chemical	3 rd Party (direct disposal)	N/A
Solid waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gloves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eye protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Foot protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sharps (e.g. needles, syringes, glass slides, broken glass/plastic) Note: Sharps are removed for off-site treatment. No prior autoclaving is required. Contact the Lab Safety Officer for further information.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liquid waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reusable items (e.g. lab ware, glassware)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reusable PPE (e.g. lab coats prior to laundering). Note: If lab coats are contaminated (splashed or spilled) with biohazard, then they must be decontaminated prior to laundry (e.g. autoclaved).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carcasses and tissues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment prior to service or removal from containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, specify: <hr/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>