

Culturing Bacteria

No	Description/Details of Steps in Activity	Hazards	Possible Accident / Ill Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control
1	Transferring bacteria from glycerol stock stored @ -80 C to plastic culture tubes	Skin contact with extremely cold materials; biological exposure	Cold burn injury; handling of bacteria outside of a Class I Biohazard Safety Cabinet risks generating aerosol particles which may be inhaled or ingested	Internal training is compulsory. Handle materials from -80 C using insulated / thermal gloves (or double layer latex gloves); wear proper PPE (safety goggles, lab coat, covered shoes); transfer samples in the biosafety cabinet; have disinfectant (e.g. 70 % ethanol) on hand.	2	1	1	
2	Transferring culture samples to glassware	Breakage of glassware; biological exposure	Injury from broken glassware; handling of bacteria outside of a Class I Biohazard Safety Cabinet risks generating aerosol particles which may be inhaled or ingested	Internal training is compulsory. Handle glassware over the lab bench (or in the biosafety cabinet); wear proper PPE (gloves, lab coat, covered shoes); transfer samples in the biosafety cabinet; have disinfectant (e.g. 70 % ethanol) on hand.	1	2	1	
3	Routine maintenance of bacteria culture	Biological exposure, breakage of glassware	Handling of bacteria outside of a Class I Biohazard Safety Cabinet risks generating aerosol particles which may be inhaled or ingested	Internal training is compulsory. Conduct routine bacteria work in a Class I Biohazard Safety Cabinet. Wear suitable PPE (e.g. lab coat, covered shoes, gloves); decontaminate equipment and/or small spills with 70% ethanol or DeCon90.	1	2	2	

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4	Single day experiments using bacteria culture (students)	Biological exposure; breakage of glassware	Handling of bacteria outside of a Class I Biohazard Safety Cabinet risks generating aerosol particles which may be inhaled or ingested	Internal training is compulsory. Conduct routine bacteria work at the lab bench over absorbant materials; wear suitable PPE (e.g. lab coat, covered shoes, gloves); decontaminate equipment and/or small spills with 70% ethanol or DeCon90.	1	2	2	