

## Making Bacteria Media

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	Weigh out Lennox Broth/Miller Broth solid: 15g/L, add 10g/L agar for (1%) agar. (From scratch, weigh 1% peptone, 0.5% yeast extract, and 1% NaCl. ( NaCl 10 g/L, Peptone 10 g/L, Yeast extract 5 g/L) LB broth suggested to be pH 7-7.2 (adjust with 1N NaOH). ). Add Bacterial agarose for 10g/L agar (1%).	Spillage of media	Accidental inhalation or ingestion of media powder.	wear proper PPE (gloves, lab coat, covered shoes).	1	1	1	
2	Add Milliq water to media bottles. Cap tightly and shake thoroughly, making sure that the solid is all well distributed in solution. Loosen caps by a full turn and place a piece of dog-eared autoclave tape on the bottle. Never autoclave flammable liquids or tightly capped bottles.	Spillage of media	Accidental inhalation or ingestion of media powder.	wear proper PPE (gloves, lab coat, covered shoes).	1	1	1	
3	Turn on the autoclave. Ensure that enough water is in the bottle, and in the bottom of autoclave, drain bottle empty, drain valve closed. Top up with Milliq water as required. Turn the autoclave machine to agar sterilisation mode, place balanced autoclave baskets of media bottles in the autoclave. Do not close the autoclave machine by hand. Use machine controls to close machine and start heating cycle.	Electric shock, heat burns, explosion	Heat or electrical burns from autoclave.	wear proper PPE (gloves, lab coat, covered shoes).	1	1	1	

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4	After the autoclave cycle is over and has cooled down, press the open button on the machine and let machine open and cool for 15 minutes. Using heatproof gloves, lift the autoclave basket onto trolley and push trolley into main lab area. Allow the agar to cool overnight before capping tightly and sealing with parafilm.	Electric shock, heat burns from steam	Heat burns from hot steam	wear proper PPE (goggles, gloves, lab coat, covered shoes). Stand back when autoclave opens and allow steam to escape and machine to cool for 15min before removing baskets. Use heatproof gloves to handle autoclave baskets.	1	1	1	