Agar Plates

Plates will be required for growth and selection of bacterial cultures.

For 1L plating agar, the following is required:
15 g Agar
10g Peptone
10g NaCl
5g Yeast extract

Mix the Peptone, NaCl and yeast extract with a lesser volume of diH20, say 700 mL, until the powders are dissolved and the solution is clear. Then add the agar, with slight mixing, top up to the correct volume and autoclave the solution.
The autoclaving process would cause the mixture to heat and melt, so the agar did not need to be fully integrated prior.

All plating should be completed inside the laminar flow hoods to prevent contamination.

Set out all of your plates ready for pouring inside of the hood. You need to wait for the media to cool slightly before adding antibiotics, and mix gently, but well. Avoid making bubbles, as this will effect the plate surface. Quickly pour the plates before the media begins to solidify. Plates should be filled to about a 3rd of the dish, around where the edge of the lid sits when the plates are closed.

Allow the plates to cool with the lids off, to avoid the formation of condensation. 30-40 minutes of cooling time is recommended.

Store the plates back in their bags, upside down, in the fridge. Be careful that they do not touch the back of the fridge, as they will cause your agar to freeze.