

Edexcel (B) Biology A-level

CP13 - Isolate an individual species of bacteria

Flashcards

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State 6 aseptic techniques.



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- Wipe down surfaces with antibacterial cleaner before and after experiment.
- Use a Bunsen burner in the work space so that convection currents draw microbes away from the culture.
- Flame the wire hoop before using to transfer bacteria.
- Flame the neck of any bottles before use to prevent any bacteria entering the vessel.
- Keep all vessels containing bacteria open for the minimum amount of time.
- Close windows and doors to limit air currents.



How can different colonies on an agar plate be distinguished from each other?



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Different colonies will have different sizes, colour and texture.



Outline the procedure to isolating a particular species of bacteria.



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1. Dip a sterile inoculating loop into the mixed culture.
2. Make streaks on the agar using the inoculating loop.
3. Incubate the agar plate for 24 hours.
4. Take a sample of the different colonies and streak them on different agar plates and incubate again for 24 hours.



Why should the lid of the petri dish not be fully taped around?



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To allow oxygen to enter, preventing the conditions from becoming anoxic.

