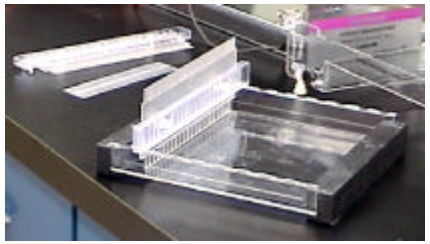
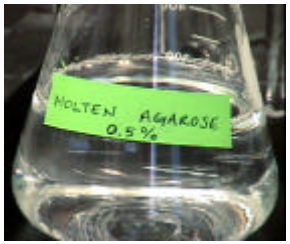
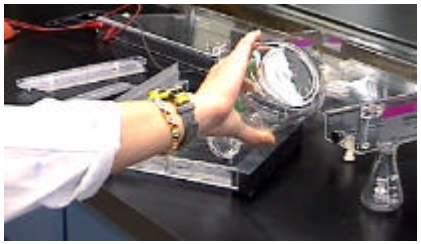
Microbiology 345: Making an Agarose Gel



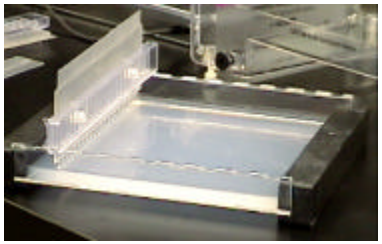
Set up the gel apparatus. Put the rubber blocks on the side of the gel tray and put the correct comb at the position where the wells will be.



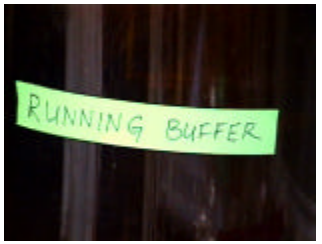
Obtain molten agarose (warm to the touch but not too hot) and swirl gently (avoid bubbles).



Pour agarose into apparatus gently and slowly to avoid bubbles.



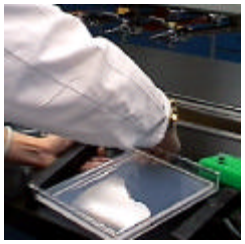
Let agarose cool and solidify.



Make or obtain some running buffer.

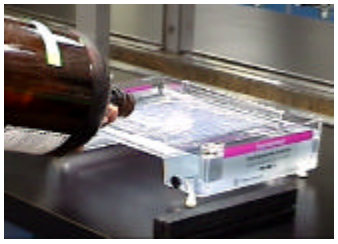
Pour some running buffer in the electrophoresis apparatus.

Gently take comb out of gel.

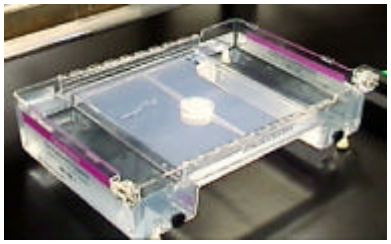


Remove rubber blocks.

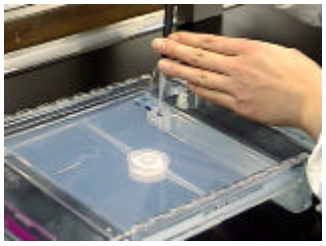
Put gel into electrophoresis apparatus.

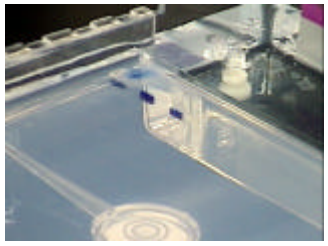


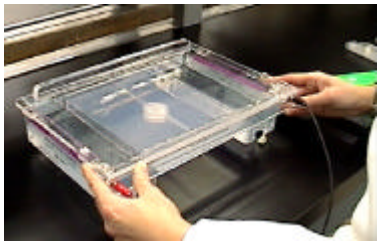
Pour the remaining running buffer on top of the gel.



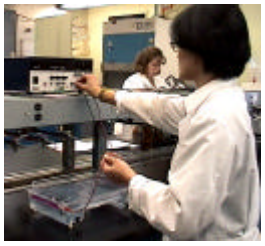
Load samples carefully into wells.



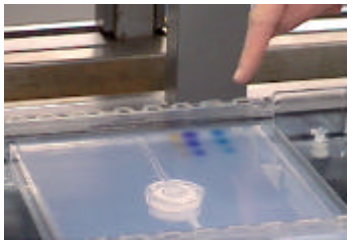




Put lid on gel apparatus and connect electrodes.



Start electrophoresis.



After running, the sample is separated (notice tracking dye is separated into three bands). The direction of electrophoresis in this gel was from right to left.