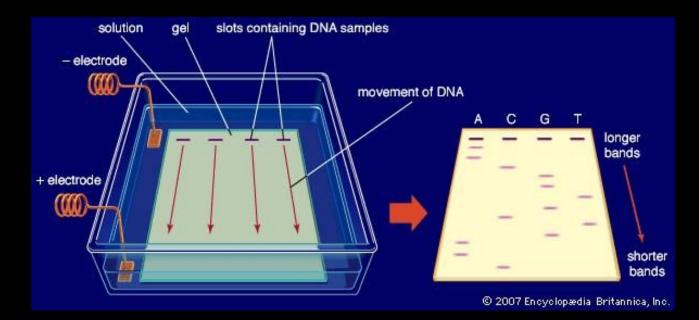
Introduction to Gel Electrophoresis



What do you remember about DNA?

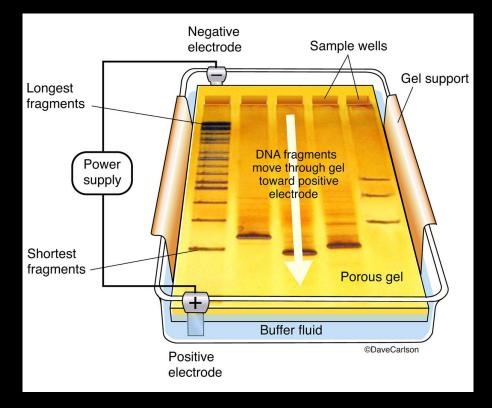


Gel Electrophoresis



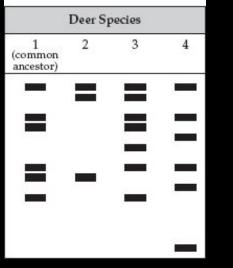
Gel Electrophoresis - a method for separation and analysis of DNA/protein

Separation of Molecules

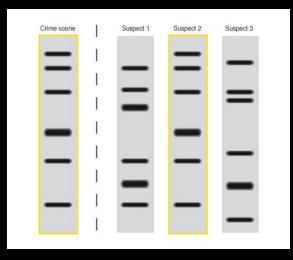


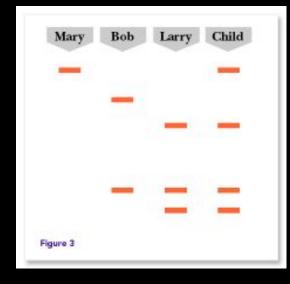
Separation of molecules is based on size and charge

ELECTROPHORESIS GEL OF DEER SPECIES



Purpose



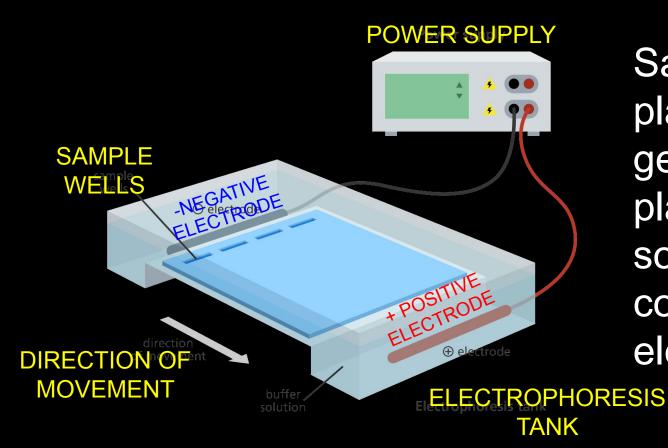


Studying evolutionary relationships

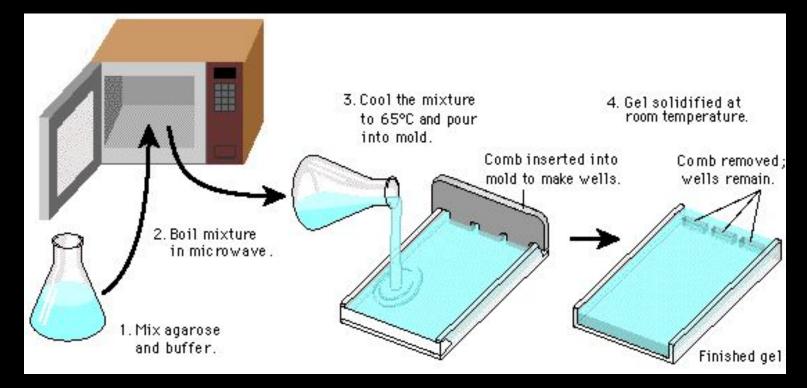
Forensics: DNA Fingerprinting

Paternity Testing

How Does it Work?



Samples are placed in a gel, which is placed in a solution that conducts electricity

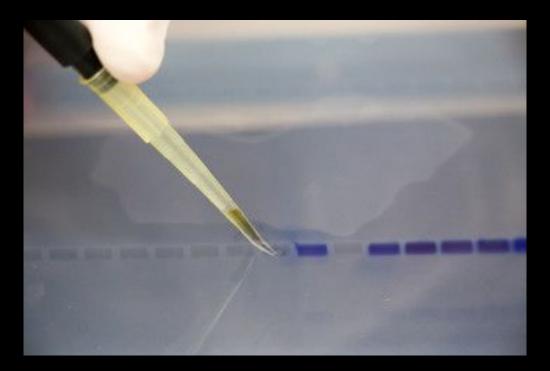


Prepare agarose gel

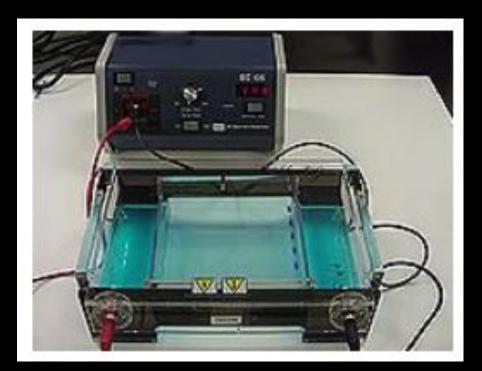


Prepare DNA samples

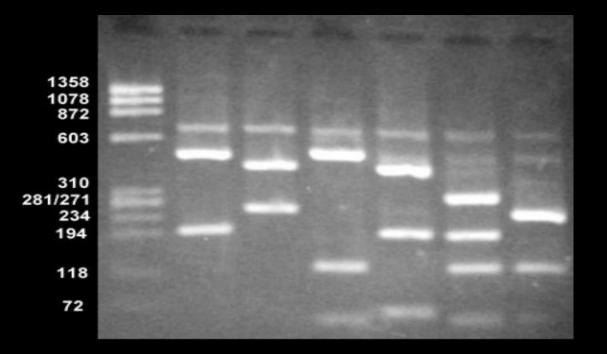
Step 3



Load samples into gel



Connect gel to electric current



Analyze DNA pattern

YouTube Gel Electrophoresis

