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Product Name :

DNA Fingerprinting Electrophoresis Lab Activity

Product Code :

SLE/CH/119



Science Lab
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Description :

DNA Fingerprinting Electrophoresis Lab Activity (Product Code: SLE/CH/119) is a forensic biotechnology kit used to run agarose gel electrophoresis on four DNA samples and decide whether a suspect's DNA matches DNA found at a crime scene, in school and college labs. It serves 8 groups, includes a Teacher's Guide and Student Study copymasters, and also teaches how restriction enzymes make DNA fingerprinting possible. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as a gel electrophoresis kit for classrooms in India and abroad.

Specifications

Parameter	Detail
Technique	Agarose gel electrophoresis
Crime Scene DNA	10 µg
Victim DNA	10 µg
Suspect #1 DNA	10 µg
Suspect #2 DNA	10 µg
Agarose	200 mL prepared agarose 0.8% solution
Running buffer	500 mL Tris-Borate-EDTA buffer, 5X
Stain	60 mL DNA stain
Group capacity	Enough materials for 8 groups
Printed resources	Teacher's Guide and Student Study copymasters
Shelf life	Depends on the chemical, its grade and storage conditions; ask us for the expiry date of the batch you are quoted
Product code	SLE/CH/119
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the DNA Fingerprinting Electrophoresis Kit Used For?

It puts students in the role of forensic analysts. The prepared 0.8% agarose solution is melted and poured into a casting tray with a comb to form wells, and the 5X Tris-Borate-EDTA concentrate is diluted to running strength as the Teacher's Guide describes. Each group loads the crime scene, victim and two suspect samples into neighbouring wells and runs the gel; after staining, the fragments show as bands, and students compare each suspect's pattern with the crime-scene pattern to reach a conclusion.

Along the way, learners see how restriction enzymes cut DNA at specific sequences, why the resulting fragment patterns differ between individuals, and how evidence should be interpreted responsibly. The contents list does not include a gel tank, a power supply or a micropipette, so arran
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topics