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Product Name :

DNA Forensics Lab Investigation

Product Code :

SLE/CH/120



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Description :

The **DNA Forensics Lab Investigation** (Product Code: SLE/CH/120) explores how DNA technology is used to solve crimes. Students act as forensic scientists in a scenario-based DNA murder mystery, comparing the electrophoretic results of DNA samples from a “crime scene” with those from several suspects and using the fragment patterns on the gel to identify the culprit.With materials for up to 40 students, this genetics experiment kit India teachers can run with awhole class also opens a discussion about the ethics of powerful new technology. It is suppliedby **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Key Details

Parameter	Detail
Theme	DNA technology in crime solving
Scenario	DNA murder mystery with a crime scene and suspects
Class size	Materials for up to 40 students
Core procedure	Simplified DNA fingerprinting; comparison of electrophoretic results
Concepts covered	DNA structure and extraction, gel electrophoresis, autoradiography,and why DNA fingerprinting is so accurate
Discussion element	Ethical considerations of using cutting-edge DNA technology

Typical Use

A typical sequence starts with the case file: a crime has been committed, DNA has been recovered from the scene, and samples are available from the suspects. Before any analysis, students review how DNA is structured and how it is extracted from cells, then follow the simplified fingerprinting procedure and study the fragment patterns revealed on the gel. By lining up the crime-scene pattern against each suspect, they reach a verdict and explain which bands support it. Autoradiography is introduced as part of how fragment patterns have been visualised in forensic laboratories.

The closing discussion is what sets this activity apart. Groups debate questions such as who should hold DNA records, how evidence could be misused and how much weight a jury should give a match. Mixing hands-on analysis with this debate makes it suitable for biology, chemistry and general-studies classes alike. For schools building up an electrophoresis kit school India programme, it works well as the scenario lesson that follows a technique-focused practical.

Supplier

The DNA Forensics Lab Investigation is supplied by **Jain Scientific Equipments Private Limited** , the company behind the **ScienceLab** name, located in Ambala, Haryana, India. It manufactures teaching apparatus and supplies investigation kits to schools, colleges and distributors. Details are on our company profile.

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