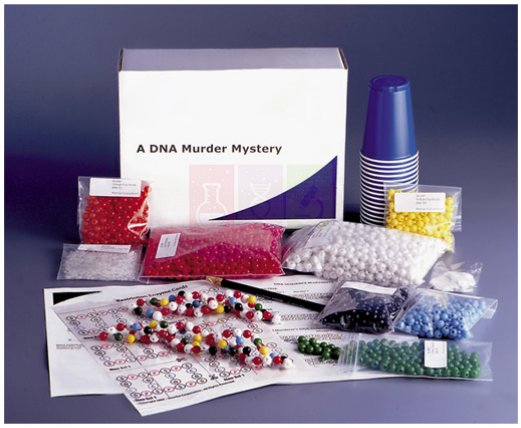
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Product Name :

DNA Murder Mystery Lab Investigation

Product Code :

SLE/CH/121



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Description :

The **DNA Murder Mystery Lab Investigation** (Product Code: SLE/CH/121) is a completely reusable kit that challenges a class to solve a murder by simulating every step of the DNA fingerprinting protocol. Instead of biological samples, students work with “pop bead” DNA fingerprints, matching those of the suspects against samples collected at the scene of the crime.It supports up to 40 students and works as an engaging DNA model kit India schools can useyear after year to introduce forensic applications of DNA technology. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Key Details

Parameter	Detail
Kit type	Completely reusable simulation kit
DNA representation	Pop-bead DNA fingerprints
Scenario	Solving a murder by matching suspects’ DNA fingerprints with samples from the crime scene
Class size	Materials for up to 40 students
Student activities	Simulate the DNA fingerprinting procedure; construct and interpret an autoradiogram; compare and evaluate DNA fingerprint patterns; compare the strengths and limitations of DNA profiling
Concepts covered	Basics of DNA fingerprinting, DNA structure and extraction, gel electrophoresis and autoradiography

Typical Use

The simulation turns an abstract laboratory protocol into something students can hold. Working in teams, they assemble bead strands that stand for DNA from the crime scene and from each suspect, then move through the stages of the fingerprinting procedure in model form: cutting the strands into fragments, arranging the fragments by size as a gel would separate them, and recording the result as an autoradiogram. Comparing these patterns side by side lets them decide which suspect matches, and the final discussion asks them to weigh up where DNA profiling is powerful and where its limitations lie.

Because the fingerprints are built from pop beads rather than real samples, the activity fits an ordinary classroom as well as a laboratory and is ideal for introducing the topic before a wet-lab electrophoresis practical. At the end of the lesson, have each team break down its strands, count the beads back into labelled containers and return them to the kit so it is complete for the next class. It sits comfortably among the biology teaching aids India schools use to link genetics with real-world forensic science.

Manufacturer

This kit is manufactured by **Jain Scientific Equipments Private Limited**, which trades under the **Scien**
scien

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