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Product Name :

Forensic Chemistry of Drug Detection

Product Code :

SLE/CH/136



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Description :

Forensic Chemistry of Drug Detection (Product Code: SLE/CH/136) casts students as forensic toxicologists. Everyone who ate the school cafeteria's chilli became ill, and aspirin appears to have been stolen from the nurse's office – so could one of the cafeteria ingredients have been swapped for it? Groups answer the question with a series of chemical tests, including tests on control aspirin. With enough material for 15 groups, it is a science kit for students in India that teaches controls, evidence and careful reasoning, supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Key Details

Parameter	Detail
Type	Forensic toxicology activity
Scenario	Illness after the cafeteria chilli; aspirin missing from the nurse's office
Method	Series of chemical tests on cafeteria ingredients, including tests on control aspirin
Group capacity	Enough material for 15 groups
Teaching material	Teacher's manual, Student's guide and Analysis copy-masters

Typical Use

The investigation is built on the idea of a control. Students first run each test on the known aspirin sample to see what a positive result looks like, then repeat the same tests on every cafeteria ingredient. Any ingredient that responds like the control becomes a suspect substitution; any that does not can be cleared. Writing up the findings on the analysis sheets teaches students to separate observations from conclusions, just as a toxicologist's report must.

Because the storyline involves food and a medicine, set a firm rule before starting: nothing on the bench is tasted, and every sample is handled with a clean spatula or dropper to prevent cross-contamination. Goggles should be worn throughout. Teachers can extend the lesson by explaining that real forensic laboratories follow quick screening tests with confirmatory instrumental analysis, which makes this a thought-provoking chemistry experiment kit for India's senior secondary classes.

Supplier

This drug-detection activity is supplied by Jain Scientific Equipments Private Limited, which trades as ScienceLab and is based in Ambala, Haryana, India, supplying schools and colleges with kits and laboratory apparatus. Read more in our company profile.

Related Chemistry Lab Equipment

Items that deepen the aspirin chemistry or support the testing: