Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Forensic Chemistry of Chromatography (Document Analysis)

Product Code :

SLE/CH/135



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Description :

Forensic Chemistry of Chromatography (Document Analysis) (Product Code: SLE/CH/135)is a crime-solving activity in which students use thin-layer chromatography (TLC) to compare theink on a ransom note with ink from markers tied to possible suspects. The storyline is simple and engaging: the school library's computers have been stolen, and the thief left behind a note demanding money. Supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its school chemistry lab equipment in India, with enough material for 15 groups, it is a chromatography kit for schools in India that wraps separation science inside a mystery students want to solve.

Key Details

Parameter	Detail
Type	Forensic document-analysis activity
Technique	Thin-Layer Chromatography
Scenario	Stolen library computers and a ransom note; note ink compared with ink from suspects' markers
Group capacity	Enough material for 15 groups
Teaching material	Teacher's Manual plus Student Guide and Analysis copy-masters

Typical Use

Students place small spots of ink from the ransom note and from each suspect marker along a pencil baseline on the TLC plate, then stand the plate in a shallow layer of solvent. As the solvent climbs, the dyes that make up each ink travel different distances and separate into bands. Matching band patterns and positions suggests that the note could have been written with a particular marker, while a clear mismatch helps rule a marker out – exactly the kind of evidence a document examiner provides.

For clean results, keep the spots small, make sure the baseline sits above the solvent level, cover the developing container and mark the solvent front as soon as the plate is removed. Students can then calculate retention factors to compare inks numerically. Because the case ends with each group presenting its conclusion, the activity also works well as a science fair project kit in India or as the centrepiece of a forensic science week.

Supplier

This activity is supplied by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana, India. Buyers completing vendor registration can use the company's GSTIN 06AAECJ8618A1ZT; it also holds DGFT Importer-Exporter Code AAECJ8618A for international consignments. More details are in our company profile.

Related Chemistry Lab Equipment

Chro