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Product Name :

Chromatography Pens, Black

Product Code :

SLE/CH/108



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Description :

Chromatography Pens, Black (Product Code: SLE/CH/108) are water-based black marker pens with a 1.7 mm tip, used to show students that a single “black” ink is really a blend of several coloured dyes. A line or dot of ink is placed on paper or card, water is allowed to creep upthrough it, and the hidden colours spread apart into separate bands. They are a simpleconsumable to keep alongside a chromatography kit for school labs in India and are supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Pen type	Water-based marker pen
Ink colour	Black
Tip size	1.7 mm
Suitable surfaces	Paper and card
Teaching purpose	Showing the separation of the colours used in black ink

Typical Use

In a standard paper chromatography practical, students draw a pencil baseline near the bottom of a paper strip (pencil graphite does not dissolve, so it will not run), mark a small dot of black ink on it, and stand the strip in a container with a shallow layer of water kept below the ink mark. As the water rises through the paper it carries each dye at a different rate, depending on how soluble the dye is and how strongly it clings to the paper fibres. After a few minutes the single black spot opens into a ladder of blues, purples, yellows or browns, which students can sketch, compare and use to work out R_f values.

Let each ink spot dry before developing so it does not smear, and keep the caps firmly on between classes so the tips stay moist. The same pens make a good starting point for a mini forensic exercise, where students compare the pattern from an unknown note with patterns from several pens. Schools that order from us as a chemistry consumables supplier in India usually request these pens together with chromatography paper so that every bench has matching materials.

Supplier

These pens are supplied by **Jain Scientific Equipments Private Limited**, the company that trades under the **ScienceLab** brand. It is based in Ambala, Haryana, where it manufactures laboratory apparatus and supplies teaching consumables to schools and colleges in India and international markets. More background is available on our company profile page.

Related Chemistry Lab Equipment

Items commonly used in the same ink chromatography practical: