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Product Name :

Electrophoresis: Agarose Gel Separation of Dyes

Product Code :

SLE/CH/126



Science Lab
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Description :

Electrophoresis: Agarose Gel Separation of Dyes (Product Code: SLE/CH/126) is aclassroom kit used to introduce agarose gel electrophoresis with coloured dyes in school andcollege science labs, and is part of our range of chemistry lab equipment in India. Unlike DNA,which cannot be seen during a run, the dyes move visibly through the gel, so students watchseparation happen, and the kit holds enough materials for ten 20 ml gels. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as a first hands-onelectrophoresis kit for school labs in India.

Specifications

Parameter	Detail
Activity	Separation of dyes by agarose gel electrophoresis
Materials supplied for	Ten 20 ml agarose gels (actual number of runs may vary with your equipment)
Samples	Dyes that can be observed during the procedure
Teaching material	Teacher's Manual and Student Study Guide copymasters
Required, not included	Agarose electrophoresis chambers, electrophoresis power supplies, micropipettes capable of measuring 10 µl
Shelf life	Depends on the chemical, its grade and storage conditions; ask us for the expiry date of the batch you are quoted
Product code	SLE/CH/126
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Agarose Gel Dye Electrophoresis Kit Used For?

It teaches the technique before students meet invisible samples. Groups cast an agarose gel, load small volumes of each dye into the wells with a micropipette and connect the chamber to the power supply; within the lesson the coloured bands begin to separate, and depending on their charge some dyes may travel towards the positive electrode while others head the opposite way. Students measure how far each band has moved and relate the distance to the charge and size of the dye molecules, the same reasoning they will later apply to DNA fragments.

Because the dyes are visible without staining, the activity is a convenient skills session for careful pipetting and gel handling. Students who can load 10 µl cleanly into a well without piercing the gel are ready for a DNA-based practical, and pairing the kit with a dedicated electrophoresis power supply lets several groups run gels at once.

What to Specify When Ordering

- The number of kits, bearing in mind each one has materials for ten 20 ml agarose gels
- Whether you also need agarose electrophoresis chambers, and how many
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