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Product Name :

Mitosis Simulation Lab Investigation

Product Code :

SLE/ECB/14



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Description :

Mitosis Simulation Lab Investigation (Product Code: SLE/ECB/14) is a hands-on class activity used to teach mitosis in secondary school and introductory college biology, with students building model chromosomes from coloured pop beads and moving them through each stage of division. One investigation serves a class of 40 students and also covers how plant and animal mitosis differ. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer,at its own factory in Ambala, India, as a biology experiment kit students can use withoutmicroscopes.

Key Details

Parameter	Detail
Type	Hands-on mitosis simulation lab investigation
Class size	40 students
Modelling material	Coloured pop beads for constructing model chromosomes
Learning outcomes	Chromosome structure and function; each stage of mitosis; how plant and animal mitosis differ
Product code	SLE/ECB/14
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Mitosis Simulation Lab Investigation Used For?

Working in pairs or small groups, students first assemble bead strands to represent chromosomes, using colour to tell one homologue from its partner. They then copy each strand to form sister chromatids joined at a centromere and walk the model through prophase, metaphase, anaphase and telophase on the bench, recording the arrangement at every step. Because the beads snap apart and together, groups can repeat a stage until the movement of chromatids makes sense, which is far more memorable than labelling a printed cycle.

The activity closes by comparing plant and animal mitosis, for example how the cell divides at the end of the process, so students can explain the differences rather than just list them. It needs no chemicals, and it works well as a lead-in to examining real dividing cells on prepared slides.

What to Specify When Ordering

- Total number of students or sections, since one investigation is designed for a class of 40.
- Whether you want mitosis slides, models or a poster from the same range quoted alongside it.
- Delivery location and any vendor registration forms your school or distributor must complete.

OEM Manufacturer

Jain S
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class