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Product Name :

Bacterial Pollution Kit

Product Code :

SLE/EB/04



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Description :

The Bacterial Pollution Kit lets students test natural water for E. coli and total bacteria and check it for coliform bacteria. One kit covers up to 20 water samples. It holds a sterile, ready-to-heat culture medium and sterile Bi-Petri dishes, and the tests are set up within one 45-minute class period.

Bacterial Pollution Kit details

Parameter	Detail
Purpose	Detection of E. coli and total bacteria in natural water; testing for the presence of coliform bacteria
Sample capacity	Up to 20 natural water samples
Class time	One 45-minute class period to set up the tests
Culture medium	Sterile, ready to heat
Culture vessels	Sterile Bi-Petri dishes
Product code	SLE/EB/04
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Water microbiology activities with the kit

Comparing local water sources. Teams collect water from a pond, stream, well and tap, and each team plates its own sample on the kit medium, using a fresh Pasteur pipette for every sample. After incubation in a laboratory incubator, students count the colonies with a digital colony counter and chart the results by site.

Negative control. Plate boiled and cooled tap water in exactly the same way, with the lid lifted for the same length of time. Colonies on this control dish point to contamination from the air, hands or equipment, and the class then reads its other results with that in mind.

Effect of boiling. Split one pond sample in two, boil half and let it cool, then plate both halves side by side. Fewer colonies on the boiled half give a clear starting point for discussing why drinking water is treated before it reaches the tap.

Frequently Asked Questions About the Bacterial Pollution Kit

How should water samples be collected and kept before plating?

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