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Product Name :

Device to Study Electric Current In Electrolytes

Product Code :

SCL222/034



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Description :

Device to Study Electric Current In Electrolytes (Product Code: SCL222/034) is a small electrolysis cell for showing that solutions of acids, bases and salts conduct electricity while pure water barely does, and for watching what happens at the electrodes while current flows. A transparent plastic vessel with a lid holds the solution, and interchangeable electrodes of different materials connect to external contacts. This electrolysis apparatus for school laboratories in India is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Vessel	Electrolysis vessel with lid, transparent plastic
Vessel volume	200 ml
Electrodes	Two or more: one copper, the others graphite or coal and zinc or lead
Electrode diameter	4 mm
Connections	External contacts fixed on the plastic support

Typical Use

Fill the vessel with the test liquid, fit two electrodes, and connect them through a lamp or ammeter to a low-voltage DC source. Distilled water gives little or no current; adding a pinch of salt or a few drops of acid makes the reading jump, which is the core observation of the topic. With copper sulphate solution and a copper electrode, students can watch copper build up on the negative electrode, and switching between graphite, zinc or lead electrodes shows how electrode material affects the products.

The same parts can be used without an external supply: copper and zinc electrodes in a salt or acid solution form a simple cell whose voltage can be read on a meter. Keep voltages low, work in a ventilated room because gases may form at the electrodes, and rinse the electrodes and vessel after every class. It fits neatly into an electrochemical cell kit for school chemistry and physics practicals.

Manufacturer

Jain Scientific Equipments Private Limited makes this electrolyte cell and trades under the ScienceLab name from Ambala in Haryana, India, where it produces teaching apparatus for chemistry and physics departments. The company profile explains who we are and how we work with institutions.

Related Lab Equipment

These products complete a conductivity and electrolysis practical:

- Cupric Sulphate (Copper Sulphate) — the usual electrolyte for copper deposition
-
- zinc