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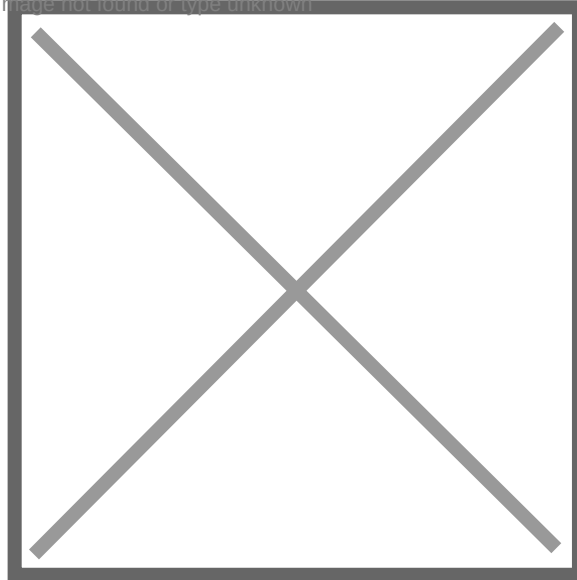
**Product Name :**

Apparatus for Demonstrating Electrolytic  
Processes

**Product Code :**

SCI-073/012

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## Description :

**Apparatus for Demonstrating Electrolytic Processes** (Product Code: SCI-073/012) is an electrolysis apparatus used to show how an electric current drives chemical change in solutions in school and college chemistry laboratories. Teachers use it to compare five electrode materials—carbon, copper, zinc, lead and brass—in 10% sulfuric acid or copper sulfate solution, with a bulb showing when current flows. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

## Specifications

| Parameter              | Detail                                                                                                                        |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Base                   | Base with 2 supports for electrodes                                                                                           |
| Current indicator      | 1 bulb                                                                                                                        |
| Electrodes             | Carbon, copper, zinc, lead and brass electrodes                                                                               |
| Solutions included     | 10% sulfuric acid solution; copper sulfate solution                                                                           |
| Vessel                 | 1 beaker                                                                                                                      |
| Wiring                 | 3 conductor wires                                                                                                             |
| Shelf life (solutions) | 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           | SCI-073/012                                                                                                                   |
| Manufacturer           | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM                                                                         |
| Country of origin      | India (made in Ambala, Haryana)                                                                                               |

## What Is the Electrolytic Processes Apparatus Used For?

In a typical lesson the beaker is filled with one of the two solutions, a pair of electrodes is clamped in the supports and the circuit is completed through the bulb and conductor wires to a low-voltage DC source. The glowing bulb shows that the solution conducts; with carbon electrodes in copper sulfate, a copper layer builds up on the cathode, while the dilute sulfuric acid gives gas bubbles at the electrodes. Swapping in copper, zinc, lead or brass lets students compare inert and reactive electrodes.

This piece of school chemistry lab equipment calls for basic care: the sulfuric acid solution is corrosive, so students should wear eye protection and gloves, and everyone should wash their hands after handling the lead electrodes. Keep the solutions capped and labelled, and rinse the beaker and electrodes after every class.

## What to Specify When Ordering

- The number of sets, for example one per student bench.
- Whether you need extra quantities of the sulfuric acid or copper sulfate solution for repeat class.
- Whether you need extra quantities of the sulfuric acid or copper sulfate solution, as per your requirement.
- Any other specifications.

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