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Product Name :

Student Voltaic Cell Set

Product Code :

SLE/EM/03



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Description :

The **Student Voltaic Cell Set** (Product Code: SLE/EM/03) lets students build their own simple and primary cells and measure how the choice of electrodes changes the voltage produced. It consists of an 8-oz plastic jar with a screw-on plastic rim carrying 2 adjustable brass electrode holders, 8 electrodes in seven materials, and a porous ceramic cup for two-solution cells, with instructions included. Secondary school chemistry and physics departments use it as an electrochemical cell kit for school practicals on cells and reactivity. It is made by a physics instruments supplier in India, **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Purpose	Demonstrates the characteristics of simple and primary cells
Cell vessel	8-oz plastic jar with screw-on plastic rim
Electrode holders	2 adjustable brass holders mounted in the rim
Electrodes	8 in total: 1 aluminium, 1 nickel, 1 tin, 1 graphite, 1 iron, 1 copper and 2 zinc
Separator	Porous ceramic cup
Documentation	Instructions included

Typical Use

Students pour a suitable electrolyte into the jar, clamp two different electrodes into the brass holders, screw on the rim and connect the holders to a voltmeter. Swapping one electrode at a time – for example keeping zinc and trying copper, iron, tin, nickel, aluminium and graphite in turn – produces a table of voltages from which the class can rank the materials and discover the idea of an electrochemical series. Placing two identical electrodes in the holders gives a control that should produce little or no voltage.

The porous ceramic cup allows a two-solution cell: one electrode and its solution sit inside the cup, the other outside it, so ions can move while the liquids stay largely separate, as in a Daniell-type cell. This makes the set a flexible chemistry experiment kit for comparing simple one-liquid cells with primary cells. Rinse the electrodes, holders and cup with water after use, dry them before storage, and lightly clean electrode surfaces when they dull, as oxide layers lower the readings.

Manufacturer

The set is produced by Jain Scientific Equipments Private Limited, whose ScienceLab brand covers electrochemistry, electricity and general physics apparatus made in Ambala, Haryana. Laboratories in India and international markets source their teaching equipment from the company; see our company profile for details.

Related Electricity Equipments

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