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Product Name :

Brownlee Electrolysis Apparatus

Product Code :

SLE/EM/02



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Description :

The **Brownlee Electrolysis Apparatus** (Product Code: SLE/EM/02) is a compact electrolysis apparatus for showing how an electric current splits water or other electrolytes into gases that collect in separate tubes. Designed for simplicity and economy, it pairs a nonconducting support carrying binding posts and 2 insulated platinum electrodes with 2 inverted 6 in test tubes and a 4 1/2 x 5 in battery jar. It is equally suited to the lecture table and to student laboratory work in school chemistry and physics, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Design	Simple, economical electrolysis set for lecture table or student laboratory
Support	Nonconducting support equipped with binding posts
Electrodes	2 insulated platinum electrodes, connected to the binding posts
Gas collection	2 inverted test tubes, 6 in
Vessel	Battery jar, 4 1/2 x 5 in

Typical Use

For the classic electrolysis of water, the battery jar is filled with a dilute electrolyte prepared by the teacher, each 6 in test tube is filled with the same solution and inverted over one platinum electrode, and a low-voltage DC source is connected to the binding posts. Bubbles rise immediately and displace the liquid in the tubes; hydrogen collects at the negative electrode in roughly twice the volume of oxygen at the positive one, which gives students a visual confirmation of the formula of water. The gases can then be tested with a lighted or glowing splint under supervision.

Because the electrodes are platinum they resist attack by the electrolyte, so the same set can be reused for comparing different salt solutions. As economical chemistry lab equipment for schools, it is a lighter alternative to a Hoffman voltameter when bench space or budget is limited. Wear eye protection, keep the supply at low voltage, disconnect before handling the tubes, and rinse the jar, tubes and electrodes with water after every use.

Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is an Ambala, Haryana maker of chemistry, physics and electrical teaching apparatus. Electrolysis sets like this one are supplied to schools and colleges in India and international markets; visit our company profile for background.

Related Electricity Equipments

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