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Product Name :

Sucrose Molecular Model

Product Code :

SLE/Mo/09



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Description :

Sucrose Molecular Model (Product Code: SLE/Mo/09) is a self-assembly kit used to build a three-dimensional model of one sucrose molecule for chemistry and biology teaching. With 45 atom-parts and 46 NV links, this 3D science model kit lets students see how a glucose ring and a fructose ring join to form table sugar, making it a clear visual aid for carbohydrate lessons. This model is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Model type	Self-assembly molecular model kit
Molecule	Sucrose — one molecule, shown in 3D
Atom parts	45
NV links	46
Tool	1
Product code	SLE/Mo/09
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Sucrose Model Used For?

Sucrose is a disaccharide: one glucose unit and one fructose unit joined by a glycosidic bond, with a molecule of water removed when the bond forms. A sucrose molecule contains 45 atoms of carbon, hydrogen and oxygen, so the 45 atom-parts build one complete molecule, and the 46 links match the number of bonds that hold those atoms together.

Teachers use the model to show the condensation reaction that forms sucrose, its hydrolysis back into glucose and fructose, and why sucrose does not give a positive result in reducing-sugar tests: the glycosidic bond ties up the groups that would otherwise react. Building the two rings separately before joining them makes the structure easier to follow, and the tool supplied should be kept with the parts.

OEM Manufacturer

Jain Scientific Equipments Private Limited, known to customers as ScienceLab, is the OEM (original equipment manufacturer) of the Sucrose Molecular Model. It is made at the company's own licensed factory at Saha, Ambala, Haryana, India, and supplied direct to schools, colleges, teacher-training institutes, dealers and importers without a trading middleman.

The same manufacturer makes the glucose and fat kits in this range, so a set of carbohydrate and lipid models can be quoted together. Find out more on the ScienceLab profile.

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