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**Product Name :**

Neuron Model

**Product Code :**

SLE/A/147



# Description :

The **Neuron Model** (Product Code: SLE/A/147) enlarges a typical myelinated nerve cell about 2,500 times, from the dendrites and cell body to the axon wrapped in its myelin sheath, andshows the organelles inside the cell body. Part of the myelin can be removed to reveal the interiorof the axon. Biology teachers, physiology lecturers and psychology departments use it as cellbiology equipment in India and elsewhere, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

## Specifications

| Parameter | Detail |
|---|---|
| Magnification | About 2,500× life size |
| Size | 53 × 38 × 17 cm |
| Base | Mounted on a durable polymer base |
| Cell body | Nucleus and nucleolus, Golgi complex, mitochondria and endoplasmic reticulum |
| Processes | Dendrites and axon |
| Myelin sheath | With nodes of Ranvier and Schwann cells; a portion can be removed to view the interior of the axon |
| Key | Numbered key included |

## Typical Use

The model is ideal for explaining how structure supports function in nerve cells: dendrites receive signals, the cell body with its nucleus, Golgi complex, mitochondria and endoplasmic reticulum keeps the cell supplied, and the axon carries impulses away. Lifting off part of the myelin sheath shows what lies underneath, while the nodes of Ranvier and Schwann cells set up a clear explanation of why myelinated fibres conduct faster.

Teachers often use it straight after an animal cell model lesson, so students can spot familiar organelles in a specialised cell. The numbered key supports labelling worksheets, practical exams and self-study, from senior secondary biology to undergraduate neuroscience.

## Manufacturer

**Jain Scientific Equipments Private Limited**, trading as **ScienceLab**, builds this neuron model and runs its business from Ambala in Haryana, India. The company profile explains more about who we are.

## Related Human Models

Resources for the same lesson on nerve cells and impulses:

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