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Product Name :

Human Nerve Ending and Synapse Model

Product Code :

SLE/A/72



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Description :

Human Nerve Ending and Synapse Model (Product Code: SLE/A/72) magnifies the junction where one nerve cell passes its signal to the next. It shows the axon terminal with its synapse,the postsynaptic membrane with receptive sites, the neurotubules and neurotransmitter vesicles,and the way neurotransmitter is delivered across the synaptic gap. Physiology, neuroscience, psychology and pharmacology teachers buying biology lab equipment in India use it to make an invisible process concrete. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Construction	One-piece model, removable from its base for closer examination
Presynaptic side	Axon terminal with synapse, neurotubules and neurotransmitter vesicles
Postsynaptic side	Postsynaptic membrane structure with receptive sites
Process shown	Mechanism of delivery of neurotransmitter across the synapse
Size	21 x 22 x 22 cm

Typical Use

Synaptic transmission is usually taught as a chain of events: an impulse reaches the axon terminal, vesicles move toward the membrane and release neurotransmitter, the chemical crosses the gap, and it binds to receptive sites on the next cell. With every stage represented on one model, the teacher can point to each step in order and then ask students to explain it back in sequence. Lifting the model off its base lets small groups inspect the vesicles and receptor sites up close.

In pharmacology lectures the same structures help explain how many drugs act by blocking receptors or altering neurotransmitter release, which makes the model a practical piece of pharmacy college lab equipment. Psychology and senior biology classes also use it when studying reflexes, learning and the effects of substances on the nervous system. Clean it with a dry, soft cloth and return it to its base after handling.

Manufacturer

This synapse model is made by Jain Scientific Equipments Private Limited, which runs the ScienceLab brand from Ambala, Haryana and supplies neuroscience and anatomy teaching models to institutions in India and international markets. The company profile explains more about the business.

Related Human Models

For a nervous-system teaching set, these items are good companions: