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Product Name :

Microstructure of Smooth Muscle Model

Product Code :

SLE/A/151



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Description :

The **Microstructure of Smooth Muscle Model** (Product Code: SLE/A/151) is a block model of a greatly enlarged bundle of smooth muscle fibers, revealing the structures inside and between the cells, from the nucleus, mitochondria and sarcoplasmic reticulum to the dense bodies and contractile myofilaments that produce contraction. Histology, physiology and zoology lab equipment buyers in India choose it to make an invisible tissue visible to a whole class. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Type	Block model of a greatly enlarged bundle of smooth muscle fibers
Size	28 × 16 × 11 cm
Base	Mounted on a durable polymer base
Structures shown	Significant extra- and intracellular structures, including sarcoplasmic reticulum, nucleus, mitochondria, dense bodies and contractile myofilaments

Typical Use

Smooth muscle lines the walls of hollow organs and blood vessels, and its contraction works differently from the striated muscle students already know. On this block model, the nucleus, the mitochondria and the dense bodies that anchor the contractile myofilaments give the teacher a clear basis to explain why smooth muscle has no visible striations and how it can contract slowly and steadily.

Lecturers typically use it alongside prepared microscope slides of muscle tissue, so students first see the enlarged three-dimensional structure and then recognise the same tissue under the microscope. It suits undergraduate zoology, physiology, pharmacy and medical histology practicals.

Manufacturer

The model is manufactured by **Jain Scientific Equipments Private Limited**, an Indian company in Ambala, Haryana; its products for schools, colleges and laboratories are sold under the name **ScienceLab**. Details are on our company profile.

Related Human Models

Items for a complete muscle-tissue lesson:

- Skeletal Muscle Fiber Model — the striated counterpart, for a side-by-side comparison
- Microstructure of Artery and Vein Model — shows where smooth muscle layers sit in vessel walls
- Microslide Animal Tissue Set 2 Muscle, Bone, Connective — photographed microscope
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