MG19658 | TOBACCO MOSAIC VIRUS

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Tobacco Mosaic Virus Anatomical Model: An enlarged representation of the virus's capsid structure, including its RNA genome, mounted on a durable resin base and accompanied by an augmented reality information card.

Applications:
Ideal for the study of virology, cell and molecular biology, and for training in areas related to agriculture and plant pathology. Suitable for use in schools, universities, laboratories, and research institutions.

Technical Differentiators:
* Detailed representation of the viral structure.
* Numbered and hand-painted.
* Produced with non-toxic resin, approved in toxicological tests.
* High-precision natural molding.
* Manufactured from stable and durable synthetic material.
* Includes an information card with related structures.
* Model with references and markings.

3D Technology and Augmented Reality:

Our anatomical models offer a visual complement through information cards that activate 3D models viewable in augmented reality (AR). This interactive platform aids learning, allowing for comparative analysis of anatomical structures and offering resources for continuing education in anatomy, physiology, and pathophysiology.

Technical Specifications:
* Scale: Enlarged. (The precise scale must be specified)
* Material: Synthetic resin.

Main Structures:
Capsomere coat: The capsomere coat is composed of proteins that self-assemble to form the characteristic helical structure of the tobacco mosaic virus (TMV). These proteins protect the viral genome and interact with plant cells during infection.

Central helical nucleic acid chain RNA: The viral RNA is a single-stranded nucleic acid molecule that contains the genetic information necessary for virus replication. It is encapsulated within the helical protein structure.

Central core: The central core of TMV is a hollow cavity that runs the length of the viral particle. This cavity houses the viral RNA.

Capsomere: Capsomers are the protein subunits that make up the helical structure of the TMV capsid. Their precise organization determines the shape and stability of the viral particle.

Other structures can be verified directly on the physical piece or on the interactive 3D model.

About the Anatomical Models:
They are developed with resin replication technology, offering an alternative for teaching and research. They present the main morphological characteristics with a good cost-benefit ratio, durability, hand painting, and numbering for precise identification of structures.

List of all visible structures:

- Capsomer coat
- Central helical RNA nucleic acid chain
- Core
- Capsomer