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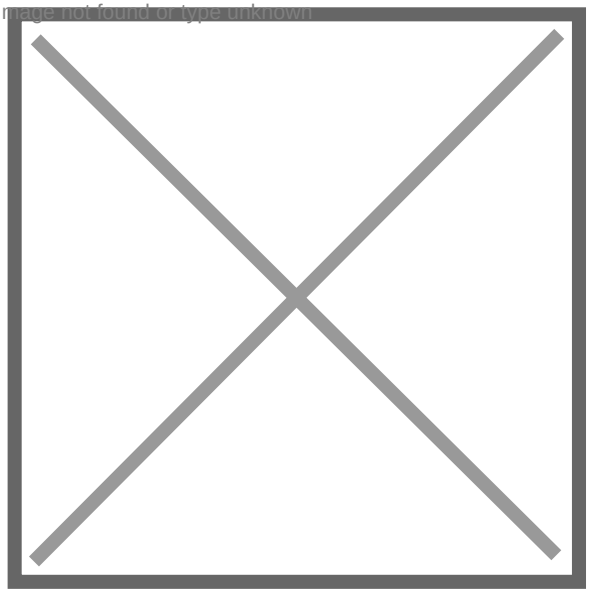
Product Name :

Bacteriophage (T4)

Product Code :

SCL472/0192

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Description :

Bacteriophage (T4) is a laminated wall chart of the T4 bacteriophage, a virus that infects bacteria, printed on a 75x100 cm polyart sheet. It shows the protein head that holds the genetic material, the tail, and the tail fibres that attach to a bacterial cell, for lessons on virus structure and replication.

Bacteriophage T4 chart specifications

Parameter	Detail
Type	Chart
Topic	Bacteriophage T4 (a virus that infects bacteria)
Material	Polyart
Size	75x100 cm
Finish	Laminated
Used in	Schools and laboratory
Product code	SCL472/0192
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Phage lessons built on the T4 chart

Drawing it for the exam. Students copy the phage from the chart, label the head, tail and tail fibres, and add any finer parts their syllabus names, such as the collar, sheath and baseplate. Turning the Bacteriophage T4 Model helps with proportions, and the class checks for two common slips: a nucleus drawn inside the head, and missing tail fibres.

How many from one field? Students count the bacteria in one microscope field of the Bacteria slide. Taking a burst of about a hundred phages per cell, they estimate how many new phages that field could release after one round of infection, and then after a second round.

Moving genes between bacteria. With the DNA (Double Helix) model in hand, the teacher shows how some phages pack a short stretch of host DNA into a new head by mistake. T4 itself breaks down the host chromosome early in infection, so it rarely does this. Students draw a flow chart of this transduction, then add transformation and conjugation as the other two ways bacteria share genes.

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