



CONTAINS
NO
ANTIBIOTICS
FEED
SUPPLEMENT

BioPhage-V

War of Virus over Vibriosis

Targets Specific
Vibrio Species

Vibrio harvey
Vibrio campbelli
Vibrio alginolyticus
Vibrio anguillarum
Vibrio parahaemolyticus

First of its Kind
Phage Technology
For Vibrio Bacteria



The shrimp gut is a dense and diverse ecosystem containing a collection of bacteria, archaea, viruses, and eukaryotic microorganisms, collectively termed the gut microbiota.

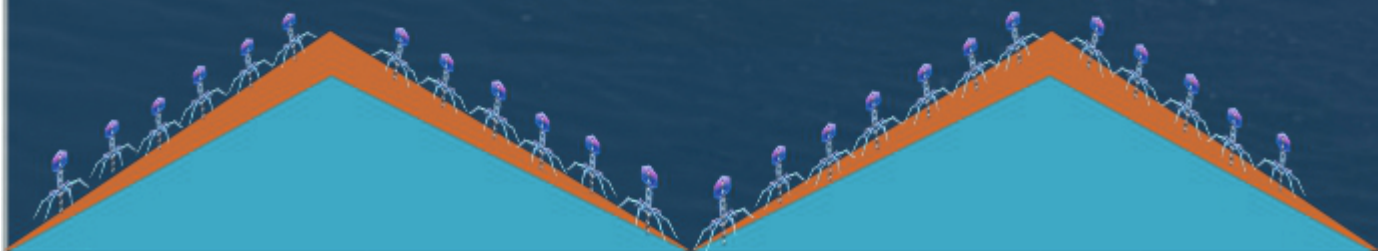
Several genetic and environmental factors shape the composition of the gut microbiota.

The gut microbiota also protects the shrimp against invasion of pathogens by occupying all available niches in the gut and producing inhibitory compounds preventing the colonization of the gut by these and other microorganisms

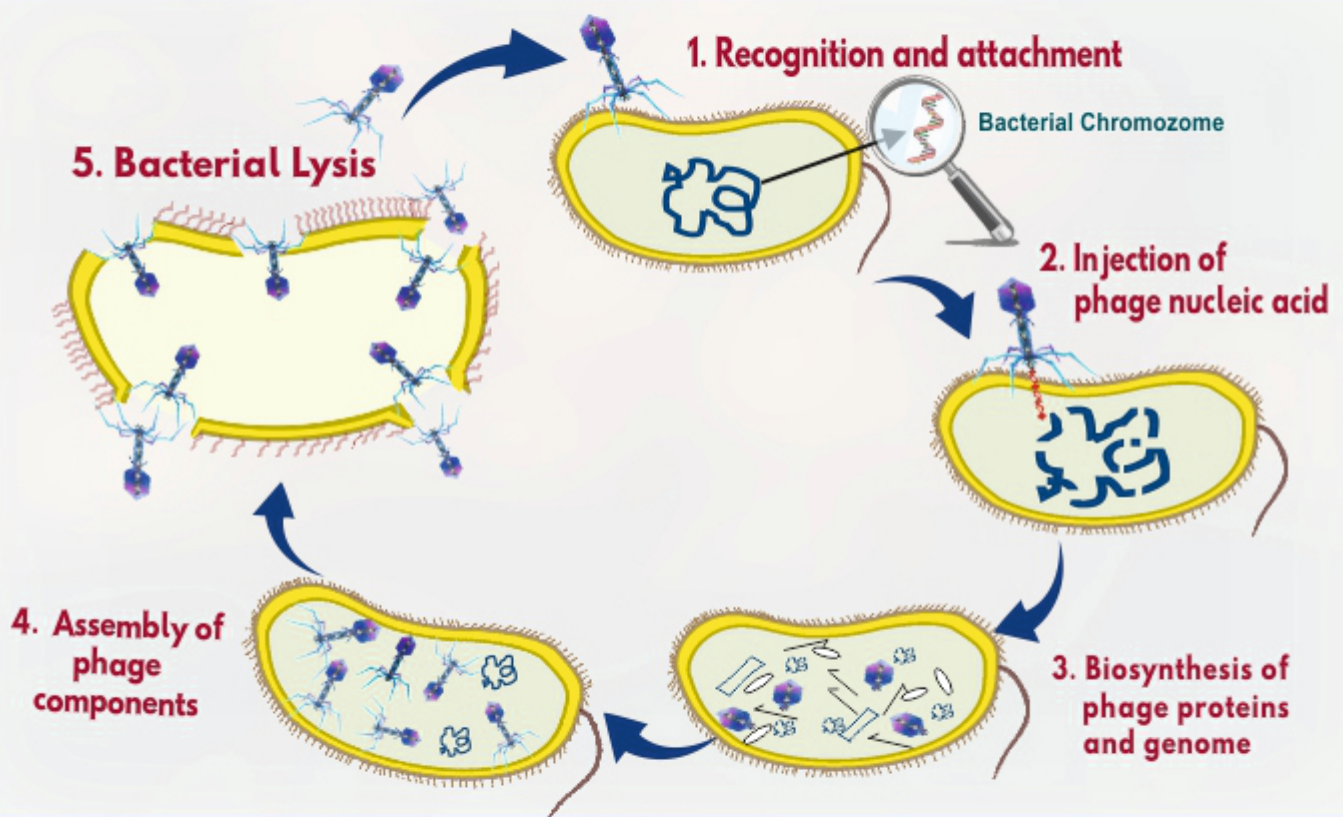
Phages were first discovered in 1915 by Twort and independently rediscovered and named in 1917 by d'Herelle, who named them after their lethal mode of action on bacteria (bacteriophage means "bacteria eater")

With the recent and dramatic increase in antibiotic resistance, phages have returned to the spotlight as a promising therapeutic tool.

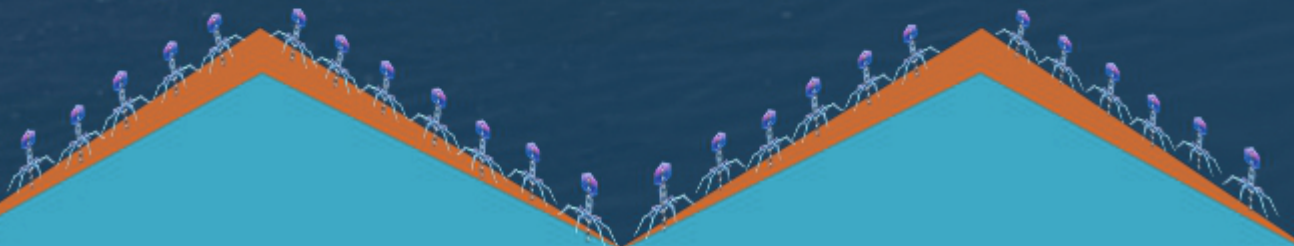
Phages replicate mostly through the lytic or lysogenic replication cycles, which have been extensively described. In brief, the lytic cycle is characterized by the direct production of new phages after infection of a bacterial cell, causing bacterial cell death



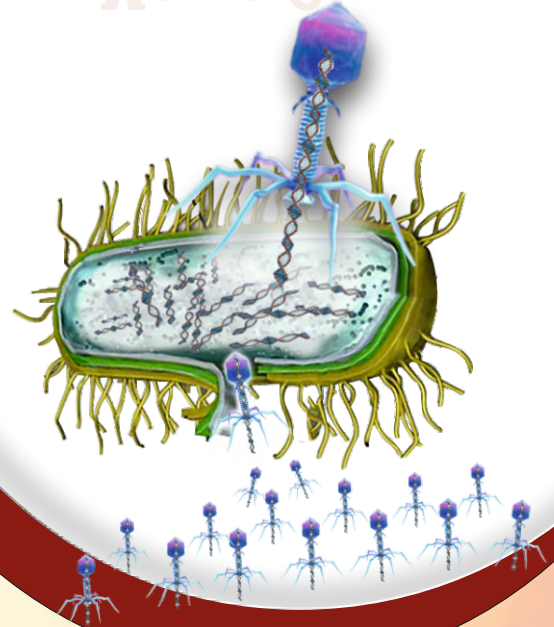
During infection a phage attaches to a bacterium and inserts its genetic material into the cell. After that a phage usually follows one of two life cycles, lytic (virulent) or lysogenic (temperate). Lytic phages take over the machinery of the cell to make phage components. They then destroy, or lyse, the cell, releasing new phage particles.



BioPhage - V cocktail consists of lytic phages , specific against localised pathogens selected from various environments. BioPhage - V is continuously upgraded to maintain the broad spectrum, pathogen specificity and infertility.



MODUS OPERANDI



Salient Features of BioPhage - V :

- ▶ 100% natural
- ▶ Targets specific group.
- ▶ Very fast results
- ▶ Does not leave any residues
- ▶ Easy and safe to use

Composition :

- ▶ Cocktail Lytic Phages (Bacteriophage).

Strength :

- ▶ 10^{10} PFU / ml

For Better Results:

- ▶ Apply BioPhage - V 6 to 7 days after stocking
- ▶ Use BioPhage - V in feed from 6 to 11 days of doc, 40 to 45 days of doc, 70 to 75 days of doc

Benefits:

- ▶ Effectively reduces vibrio load in the pond water, preventing the biofilm formation in the pond bottom
- ▶ Prevents vibriosis outbreak
- ▶ BioPhage-V Prevents colonization of vibrio in the shrimp gut when given as feed additive
- ▶ BioPhage-V prevents vibrio associated diseases like running mortality syndrome and white faeces.
- ▶ BioPhage-V improves survival
- ▶ BioPhage-V improves profitability

Keep in a cool and dark place

Usage & Dosage:

Water Application			Feed Application		
S.NO.	DOC	Dosage	S.NO.	DOC	Dosage
1	6 th day	100ml/Acre	1	6 -10	→ Mix 5 ml of Biophage -V with 5 Ltr of water and keep in cool Place.
2	40 th day	100ml/Acre	2	40 - 45	→ Mix 20 ml of above preparation for Kg of feed, Two meals a day

Method of Application

100 ml /acre. at 6 D.O.C and 40 D.O.C.
Mix 100ml of biophage -V with 10ltr of **Pond water** and apply evenly in the entire pond

Packing:

Two 50 ml units



Manufactured & Marketed by:
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