

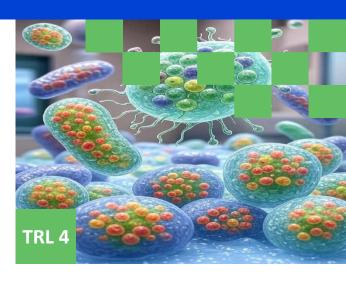
Bacteriophage Strain and Its Application for Combating Salmonella enterica

About the solution

The invention relates to bacteriophage designated belonging vB_SenS-3, the to Siphoviridae family, isolated from municipal wastewater. It has been confirmed that this phage shows activity against various serotypes of Salmonella enterica, effectively destroying bacterial cells both in vitro and in vivo.

Genomic analysis revealed the absence of genes encoding toxins or virulence factors and confirmed its classification as a lytic virus, supporting its safety of use.

The invention can be applied in the food industry as a natural agent to the risk of food reduce well contamination, as as in veterinary and human medicine as an alternative to antibiotics for Salmonella treating enterica infections.



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IP Protection

The invention is protected by the Polish Patent Office under the following number Pat.240907

Applications

- Food industry,
- Food safety,
- Medicine,
- Veterinary medicine

Cooperation opportunities

- Research partnership,
- Licensing,
- Technology sale