

Bacteriophage MS2

Cat. No. BAC-017 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Bacteriophage MS2 is manufactured in E. coli to high quality and diluted in SM buffer at two different titers, 1E9 pfu/ml and 5E10 pfu/ml. This product can be used as an in process control in nucleic acid based assays.
Background	Bacteriophage MS2 is an RNA virus that infects the bacterium Escherichia coli and other members of the Enterobacteriaceae. MS2 bacteriophage belongs to Leviviridae family and its 3,569 nt single strand RNA genome encodes four proteins: (i) the maturase, involved in the infection through the E. coli pilus; (ii) the coat protein, which self-assembles in an icosahedral shape formed by 180 monomers; (iii) the lysis protein, involved in the bacterial cell lysis; and (iv) the replicase protein, an RNA-dependent RNA polymerase (RdRP)(Fiers et al. 1976).
Sequence Strain	MS2
Formulation	Culture supernatant diluted in SM Buffer (50mM TRIS pH7.5, 20mM NaCl, 3.3mM magnesium sulfate, 0.02% gelatine
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Storage	Short Term Storage: -20 centigrade Long Term Storage: -20 centigrade
Concentration	Titered at 5e10 pfu/ml
Notes	This product is intended for research and manufacturing uses only. It is not a

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diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.

ClassID 1 Infectious Disease

GENE INFORMATION

Synonyms Bacteriophage MS2

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