

M13mp18 RF I DNA



1-800-632-7799
info@neb.com
www.neb.com



N4018S 042160418041

N4018S

10 µg Lot: **0421604** Exp: **4/18**
100 µg/ml Store at **-20°C**

Description: M13mp18 is the double-stranded, covalently closed, circular form of DNA derived from bacteriophage M13. This phage vector contains single HindIII, SphI, SbfI, PstI, SalI (AccI/ HincII), XbaI, BamHI, SmaI (XmaI), KpnI (Acc65I), SacI and EcoRI sites within the β-Galactosidase gene (1). When a fragment of DNA is inserted into one of these sites, the β-Galactosidase gene is inactivated, providing selection for clones on the appropriate indicator plate (2).

Preparation: The phage M13mp18 is propagated in *E. coli* ER2738(3). The replicative form of DNA is isolated from infected cells and purified by a standard plasmid purification procedure. The final preparation is tested for its suitability as a vector.

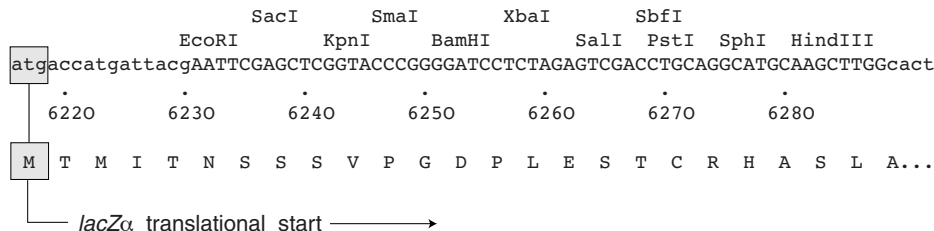
Supplied in: 10 mM Tris-HCl (pH 8.0 @25°C), 1 mM EDTA.

Transformation Reaction: Undigested vector (12 ng/100 µl competent cells) yielded 3.3×10^5 pfu/µg plaques. Of these, 100% were blue plaques and < 0.05% were colorless.

EcoRI digested vector yielded 3% blue plaques and < 0.05% colorless plaques.

EcoRI digested vector ligated in the absence of target DNA yielded 34% blue plaques and < 0.05% colorless plaques.

EcoRI digested vector ligated in the presence of target DNA yielded 29% blue plaques and 7% colorless plaques.



References:

- Norlander, J., Kempe, T. and Messing, J. (1983) *Gene* 26, 101–106.
- Messing, J., Crea, R. and Seeburg, P.H. *Nucleic Acids Research* 9, 309–321.
- Messing, J. (1979) *Recombinant DNA Technical Bulletin* (NIH) 2, 43–48.



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

CERTIFICATE OF ANALYSIS

M13mp18 RF I DNA



1-800-632-7799
info@neb.com
www.neb.com



N4018S 042160418041

N4018S

10 µg Lot: **0421604** Exp: **4/18**
100 µg/ml Store at **-20°C**

Description: M13mp18 is the double-stranded, covalently closed, circular form of DNA derived from bacteriophage M13. This phage vector contains single HindIII, SphI, SbfI, PstI, SalI (AccI/ HincII), XbaI, BamHI, SmaI (XmaI), KpnI (Acc65I), SacI and EcoRI sites within the β-Galactosidase gene (1). When a fragment of DNA is inserted into one of these sites, the β-Galactosidase gene is inactivated, providing selection for clones on the appropriate indicator plate (2).

Preparation: The phage M13mp18 is propagated in *E. coli* ER2738(3). The replicative form of DNA is isolated from infected cells and purified by a standard plasmid purification procedure. The final preparation is tested for its suitability as a vector.

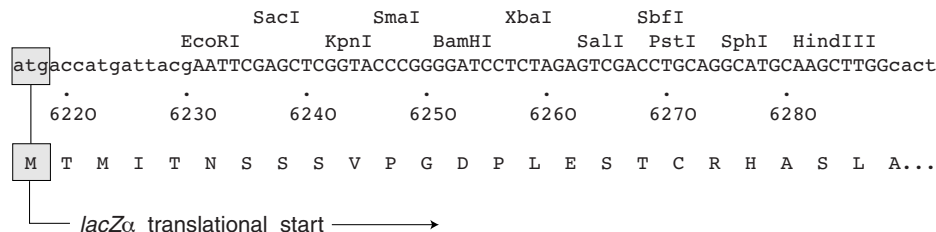
Supplied in: 10 mM Tris-HCl (pH 8.0 @25°C), 1 mM EDTA.

Transformation Reaction: Undigested vector (12 ng/100 µl competent cells) yielded 3.3×10^5 pfu/µg plaques. Of these, 100% were blue plaques and < 0.05% were colorless.

EcoRI digested vector yielded 3% blue plaques and < 0.05% colorless plaques.

EcoRI digested vector ligated in the absence of target DNA yielded 34% blue plaques and < 0.05% colorless plaques.

EcoRI digested vector ligated in the presence of target DNA yielded 29% blue plaques and 7% colorless plaques.



References:

- Norlander, J., Kempe, T. and Messing, J. (1983) *Gene* 26, 101–106.
- Messing, J., Crea, R. and Seeburg, P.H. *Nucleic Acids Research* 9, 309–321.
- Messing, J. (1979) *Recombinant DNA Technical Bulletin* (NIH) 2, 43–48.



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

CERTIFICATE OF ANALYSIS