

# DNA Marker pUC19 Msp I

Cat. Number: PF00700

## Fragment sizes (base pairs)

12 Fragments    **26   34   67   110   111   147   190   242   331   404   489   501 bp**

## Kit Contents

- 1 tube DNA Marker pUC19 Msp I (50 µg) for up to 100 loadings at 0.5 µg/lane
- 1 tube with 1 mL sterile 1 x loading buffer

The DNA Marker pUC19 Msp I was manufactured from plasmids with specific sites of mutation<sup>1)</sup>, following restriction digestion, de-proteination with phenol/chloroform, precipitation, de-salting and spectroscopic analysis. The marker is lyophilized for long-term storage.

1) One mutagenesis site per plasmid is protected legally. Amplification of the plasmids is not allowed without our written consent.

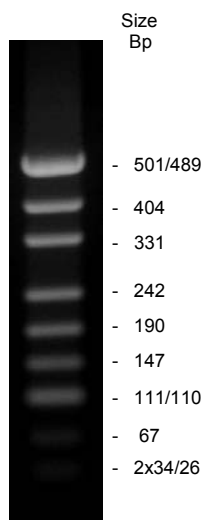
## Instructions

### Before first usage

DNA marker should be dissolved in 1 mL sterile 1 x loading buffer to obtain a final concentration of 0.5 µg/10 µL or depending on other intended use in sterile, double distilled water or TE. Dissolve DNA marker by gently shaking it for 10 min at room temperature in the appropriate buffer.

### 1 x loading buffer, sterile

TRIS/HCl pH 7.5	10 mM
Na-acetate	5 mM
EDTA	2 mM
Glycerol	10 %
Bromophenol blue	0.02 %
Xylenecyanol blue	0.015 %



### Sample loading on agarose gels

For agarose gel electrophoresis 0.25 – 1 µg DNA marker per lane are recommended for fluorescence detection of ethidium bromide stained gels.

### Storage

The lyophilized marker is stable at room temperature for >4 years. Once dissolved, the DNA marker should be stored at 4 °C. Repeated (>20 x) thawing and freezing will damage the DNA marker and should be avoided.

### Restrictions in use

This product may only be used *in-vitro* for analytical research purposes. It is not intended for diagnostic purposes or any use in human or animal systems.