

DNA Marker pUC18 Hpa II

Cat. Number: PF00600

Fragment sizes (base pairs)

12 Fragments **26 34 67 89 110 147 190 242 353 404 489 501 bp**

Kit Contents

- 1 tube DNA Marker pUC18 Hpa II (50 µg, **red lock**) for up to 100 loadings at 0.5 µg/lane
- 1 tube with 1 mL sterile 1 x loading buffer

The DNA Marker pUC18 Hpa II was manufactured from plasmids with specific sites of mutation¹⁾, 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.

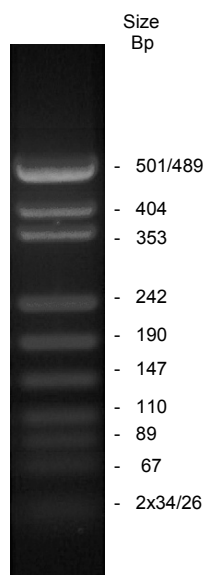
Instructions

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	4 mM
Glycerol	8 %
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.