

# ShortRun DNA Marker

Cat. Number: PF00400

## Fragment sizes (base pairs)

5 Fragments    **500**    **1000**    **1500 (2x)**    **2000**    **2500 bp**

## Kit Contents

- 1 tube *ShortRun* DNA Marker (50 µg, **amber lock**) for up to 200 loadings at 0.25 µg/lane
- 1 tube with 2 mL sterile 1 x loading buffer

*ShortRun* DNA Marker was manufactured from plasmids with specific sites of mutation<sup>1)</sup>, following restriction with EcoRI, digestion, de-proteination with phenol/chloroform, precipitation, de-salting and spectroscopic analysis. The marker is lyophilized for long-term storage. Fragments are present in optimised amounts for short separation distances.

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

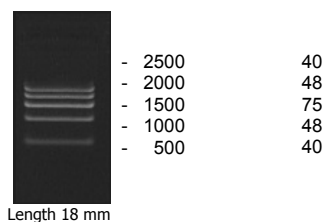
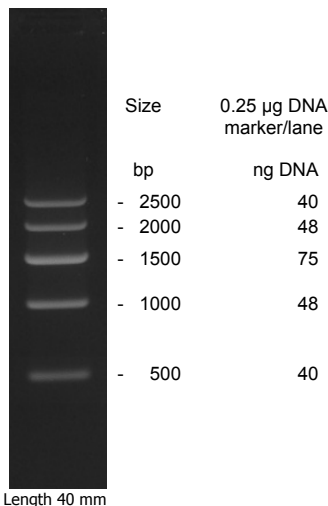
## Instructions

### Before first usage

*ShortRun* DNA Marker should be dissolved in 2 mL sterile 1 x loading buffer to obtain a final concentration of 0.25 µg/10 µL or depending on other intended use in sterile, double distilled water or TE. Dissolve *ShortRun* DNA Marker by gently shaking it for 10 min at room temperature in 1 mL appropriate buffer and add the residual 1 mL buffer after DNA has been solved.

### 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 fast agarose gel electrophoresis 0.25 µg *ShortRun* 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.