DNA Molecular Weight Marker XVII (0.5–5.0 kbp)

500 base pair ladder

**Cat. No. 11 855 646 001**

50 µg ∆ 1 A₂₆₀ unit

50 µg (200 µl) for 50 gel lanes

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**Product overview**

**Formulation**
Solution in 10 mM Tris-HCl, 1 mM EDTA, pH 8

**Concentration**
250 µg/ml

**Size distribution**
Fragment mixture prepared by cleavage of specially constructed plasmids with restriction endonucleases. The mixture contains 10 blunt-ended, double-stranded DNA fragments with the following base pair lengths:

- 500
- 1000
- 1500
- 2000
- 2500
- 3000
- 3500
- 4000
- 4500
- 5000

The 2000 and 4000 bp banding patterns are 3 × brighter. Electrophoretic separation of this molecular weight marker results in a regular pattern.

**Application**
The 500 bp ladder allows accurate sizing of DNA fragments generated by PCR or restriction digest separated on agarose gels. The DNA Molecular Weight Marker XVII can be used in conjunction with DNA Molecular Weight Marker XIII (50 bp ladder)*, DNA Molecular Weight Marker XIV (100 bp ladder)* and DNA Molecular Weight Marker XVI (250 bp ladder)* for precise size determination.

**Typical analysis**
The DNA fragment mixture shows a banding ladder with 10 DNA fragments in agarose gel electrophoresis (see Figure).

**Separation conditions**
Apply 1 µg DNA per lane on a 0.7% Agarose MP* gel.

**Storage/stability**
The unopened vial is stable at −15 to −25°C until the expiration date printed on the label.

*Note:* This product is shipped on dry ice and should be stored at −15 to −25°C until use. Once thawed, store at +2 to +8°C. Avoid repeated freezing and thawing.

**Changes to previous version**
Editorial changes.

**Trademarks**
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For life science research only. Not for use in diagnostic procedures.

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**Fig.** Separation of 1 µg DNA Molecular Weight Marker XVII on a 0.7% agarose gel. Ethidium bromide stain.

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