

DNA marker 200-1500+ coloured (200-700 by 50 bp)

(Catalogue number C130, C131, C132)

Description

Estimation of the size of DNA fragments generated in PCR (PCR fragments) or by DNA cutting by restriction enzymes (restriction fragments) is usually based on the comparison of these fragments with DNA fragments of known size (DNA markers). Size of PCR fragments is usually in the range 200-1500 base pairs. This range is covered by DNA fragments, which are part of DNA marker 200-1500+ coloured (Fig. 1). These fragments were produced by amplification of plasmid DNA of different length.

Technical data

Concentration

- 1.7 µg DNA/10 µl buffer (10 mM Tris-HCl, 25 mM EDTA, additives).

Packaging

- 1 tube containing 50 µg of amplified DNA fragments in 300 µl of buffer. This amount enables preparation of 30 (each 10 µl) or 60 (each 5 µl) markers.

Storage

- Store at temperature $-20 \pm 5^{\circ}\text{C}$. Material can be repeatedly defrosted.

Quality control

- The presence of corresponding fragments is controlled by electrophoresis in agarose gel supplemented with ethidium bromide (1 µg/ml). When observed under UV light, 16 DNA fragments are observed (200, 250, 300, 350, 400, 450, **500**, 550, 600, 650, 700, 800, 900, 1000, 1200, 1500 bp). 500 bp fragment is present in 2x higher amount (Fig. 1).

Protocol

Recommended protocol for determination of the size of PCR products

10 µl of DNA marker 200-1500+ coloured can be loaded directly into the wells of a gel prepared from PCR agarose (Cat. No. P045).

Load into nearby wells the samples prepared by mixing:

- 10 µl PCR product,
- 3 µl PCR loading buffer (Cat. No. P 066).

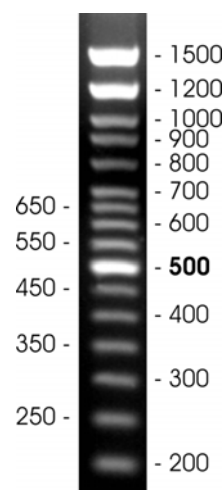


Figure 1. Electrophoretic separation of DNA marker 200-1500+ coloured.

10 µl of DNA marker was directly loaded into wells of 1.2 agarose gel, which contained ethidium bromide (1 µg/ml) and 1x TBE buffer. DNA fragments were separated by electrophoresis. The numbers represent the number of base pairs in the corresponding DNA fragments.

Cat. No.	Product name and specification	Amount
C130	DNA marker 200-1500+ coloured	25 µg/300 µl
C131	DNA marker 200-1500+ coloured	5x 25 µg/300 µl
C132	DNA marker 200-1500+ coloured	20x 25 µg/300 µl

