

DNA marker 155-970 coloured

(Catalogue number C109, C111)

rev. 10/2018

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 comparison of these fragments with DNA fragments of known size (DNA markers). Size of PCR fragments is often in the range 150-1000 base pairs. This range is covered by DNA fragments, which are part of DNA marker 155-970 (Fig. 1). These fragments were produced by cutting a reference plasmid by restriction enzyme. This marker DNA marker is supplemented with inert dye (Purple) and additives increasing density and therefore can be loaded directly into agarose gel. This marker is especially suitable for analysis of PCR products generated by Taq-Purple DNA polymerase (Cat. No. T 107-T109).

Technical data

Concentration

- 1 µg DNA/12 µl buffer (25 mM potassium acetate, 10mM Tris acetate and 25 mM EDTA).

Packaging

- 1 tube containing 25 µg of restriction DNA fragments in 300 µl of buffer. This amount enables 30 analyses (each 10 µl).

Storage

- Store at temperature $-20 \pm 4^{\circ}\text{C}$. 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, 9 DNA fragments are observed (155, 194, 239, 305, 447, 544, 595, 750, and 970 bp) as shown in Fig. 1.

Protocol

Recommended protocol for determination of the size of PCR products

10 µl of DNA marker 155-970 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.

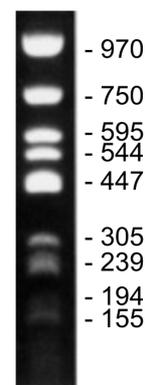


Fig. 1. Electrophoretic separation of components of DNA marker 155-970 coloured. 10 µl of DNA marker coloured was directly loaded into wells of 1.2% agarose gel, which contained ethidium bromide (1µg/ml) and 1x TBE buffer. DNA fragments were separated by electrophoresis. The numbers represent the number of base pairs in the corresponding DNA fragments.

Cat. No.	Product name and specification	Amount
C109	DNA marker 155-970 coloured	25 µg/300 µl
C111	DNA marker 155-970 coloured	5x 25 µg/300 µl

