

DNA marker 155-970 coloured

(Catalogue number C109, C111)

rev. 07/2025

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). The size of PCR fragments is often in the range 150-1000 base pairs. This range is covered by DNA fragments, part of DNA marker 155-970 (Fig. 1). These fragments were produced by cutting a reference plasmid with a restriction enzyme. This marker DNA marker is supplemented with inert dyes (bromophenol blue, xylene cyanol, and purple) and additives that increase density. Therefore, it can be loaded directly into agarose gel.

Technical data

Concentration

- 1 µg DNA/12 µl buffer with 25 mM EDTA.

Quality control:

- The presence of corresponding fragments is controlled by electrophoresis in agarose gel. The observed fragments are indicated in Fig. 1.

Packaging

- 1 tube containing 25 µg of restriction DNA fragments in 300 µl of buffer.

Storage

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

Protocol

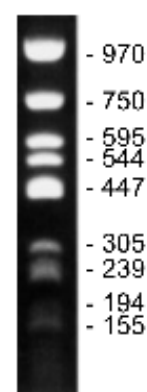
Recommended protocol for the determination of the size of PCR products

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,
- 2 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. 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

