3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

ProductInformation

PCR Marker, 50-2,000 bp

Catalog Number **P9577**
Storage Temperature –20 °C

Product Description

This PCR Marker has been especially designed for size determination of PCR generated DNA fragments. The recommended agarose gel concentration is 2.0%. The marker is composed of 8 bands, 50 - 2,000 bp in predictably spaced (ladder) double stranded DNA recombinant fragments. The PCR Marker is supplied in 1× PCR Loading Buffer and is ready to use. It is recommended to use 5 µl of the PCR Marker per lane and one vial is sufficient for 50 applications.

Reagents

One vial of the PCR Marker (Catalog Number P2993) containing 250 µl.

One vial containing 0.5 ml of 6× PCR Loading Buffer (Catalog Number P7206) is supplied for preparation of PCR generated DNA fragment samples by the researcher.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the PCR Marker (Catalog Number P2993) at –20 °C. The 6× PCR Loading Buffer (Catalog Number P7206) should be stored at 2–8 °C after receipt. It may require gentle heating (25-37 °C) to completely go into solution after freezing. Do not use if precipitates are present as this will affect the current flow in electrophoresis.

Procedure

The 2.0% (w/v) agarose gel is prepared with 1× TAE (40 mM Tris acetate, pH 8.3, with 1 mM EDTA) running buffer. Load 5 µl of the PCR Marker and the PCR generated DNA fragment samples on the agarose gel. The PCR Marker is ready to use and the PCR fragments may be prepared using the diluted 6× PCR Loading Buffer (Catalog Number P7206). The gel was run ~30 minutes in 1× TAE. After ethidium bromide staining, 8 bands (50-2,000 bp) are observed and the pattern is consistent with the expected fragment sizes.

Fragment Sizes: base pairs

50
150
300
500
750
1,000
1,500
2,000

The ethidium bromide background can be reduced by destaining 30–45 minutes in 1× electrophoresis buffer.

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