DNA Marker 1–10 kb

Introduction
DNA Markers range in size 1 kb to 10 kb for rapid size estimation of PCR† products and restriction fragments. Loading 5 µl per lane yields approximately 50 ng of DNA per band. DNA can be visualized by ethidium bromide staining or kinase with radiolabeled 32P for detection by autoradiography.

Contents
DNA marker
2 x 250 µl – 100 applications
Store at 4°C

6X loading buffer (250 µl)
Contains bromophenol blue
Store at 4°C or 25°C

NOTE: Mix small amounts as needed or mix a large amount, aliquot and store at 4°C.

Procedure – Ethidium Bromide Staining
1. Mix 5 µl of DNA marker and 1 µl of 6X loading buffer.
2. Mix 5 parts of your sample to 1 part of 6X loading buffer.
3. Load DNA markers and samples onto an agarose gel.
4. Electrophorese, stain and photograph following your standard protocol.
5. Estimate the size of the sample DNA by reading its relative position to the closest marker.

Procedure for 5΄ End Radiolabeling
NOTE: The marker can be labeled directly or for more efficient labeling, ethanol precipitate first.

Ethanol Precipitation
1. Remove a 100 µl aliquot of the DNA marker.
2. Add 10 µl of 3M potassium acetate, pH 7.4
3. Add 300 µl of absolute ethanol.
4. Incubate at -70°C for 30 minutes.
5. Microcentrifuge at 4°C for 10 minutes.
6. Redissolve the pellet in 100 µl of distilled water.
Product Safety:
For details regarding product safety, see Material Safety Data Sheet (MSDS); call (800) 638-8174 for extra copies of the MSDS. Emergency after hours, call collect (303) 595-9048.

Warranty:
Because of the numerous factors affecting results, Lonza DNA markers are sold with the understanding that purchasers will make their own tests to determine the suitability of these markers for their particular purposes. The use suggested by Lonza, is presented only to assist our customers in exploring possible applications for this product. All information and data presented are believed to be accurate and reliable but are presented without the assumption of any liability by Lonza.

References
Sambrook, J., Fritsch, E.F., and Maniatis, T.

Ordering Information
Catalog No. Description Size
50471 DNA Marker 1-10 kb 100 Applications

Related Products
GelStar™ Nucleic Acid Gel Stain
Latitude™ HT Precast Agarose Gels
Latitude™ Precast Agarose Midigels
Reliant™ Gel System
SYBR® Green Gel Stains
SeaKem® LE Agarose
SeaPlaque™ GTG™ Agarose
SeaPlaque™ Agarose

For more information contact Scientific Support at (800) 521-0390 or visit our website at www.lonza.com.

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For Research Use Only.
Not For Use In Diagnostic Procedures.

†The PCR process may be covered by one or more third-party patents.

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