Suggested protocol for loading a DNA Ladder/marker

New England Biolabs

Abstract

This is the suggested protocol for use with λ DNA-Mono Cut Mix (N3019), ϕX174 DNA-HaeIII Digest (N3026),pBR322 DNA-BstNI Digest (N3031), pBR322 DNA-MspI Digest (N3032), 2-Log DNA Ladder (0.1-10.0 kb) (N3200), 100 bp DNA Ladder (N3231), 1 kb DNA Ladder (N3232), Low Molecular Weight DNA Ladder (N3233), and 50 bp DNA Ladder (N3236)

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Before start

The following protocol is recommended for a 5 mm wide lane.

Protocol

Step 1.
Prepare loading mixture (**6 µl** total volume):

PROTOCOL

. Loading Marker Mixture

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NOTES
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The components of the mixture should be scaled up or down, depending on the width of the agarose gel.
Step 1.1.
Distilled water, **4 µl**

AMOUNT
4 µl Additional info:
Step 1.2.
6X Purple no-SDS Loading Dye, **1 µl**

AMOUNT
1 µl Additional info:

REAGENTS
Gel Loading Dye, Purple (6X), no SDS - 4.0 ml B7025S by New England Biolabs
Step 1.3.
DNA Ladder, **1 µl**

AMOUNT

1 µl Additional info:

Step 2.

Mix gently

Step 3.

Load onto the agarose gel

NOTES

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For long term storage, store at -20°C. If samples need to be diluted, use TE or other buffer of minimal ionic strength. DNA may denature if diluted in dH20.