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Suggested protocol for loading a DNA Ladder/marker V.2

New England Biolabs[1]

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New England Biolabs (NEB)
Tech. support phone: **+1(800)632-7799** email: **info@neb.com**

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This is the suggested protocol for use with:

Quick-Load®Purple 1 kb DNA Ladder (N0552)
Quick-Load®Purple 100 bp DNA Ladder (N0551)
Quick-Load®Purple 50 bp DNA Ladder (N0556)
Quick-Load®1 kb Extend DNA Ladder (N3239)
Quick-Load®1 kb DNA Ladder (N0468)
Supercoiled DNA Ladder (N0472S)
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)
50 bp DNA Ladder (N3236)

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https://www.neb.com/protocols/2018/08/03/suggested-loading-protocol-for-dna-ladders-and-markers

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agarose gel, how to load a gel, loading a ladder, loading a marker

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MATERIALS

Gel Loading Dye, Purple (6X), no SDS - 4.0 ml **New England Biolabs Catalog #B7025S**

Please refer to the Safety Data Sheets (SDS) for health and environmental hazards.

This protocol is recommended for a 5 mm wide gel lane. The components of the mixture should be scaled up or down, depending on the width of the lane.

1

Prepare loading mixture (**6 µl** total volume):

Dilute only 1 µl of DNA Ladder at a time.

A	B
Distilled water (dH_20)* or TE Buffer	4 µl
Gel Loading Dye, Purple (6X), no SDS	1 µl
DNA Ladder/Marker	1 µl
Total Volume	6 µl

*For multiple loads, dilution, and storage, use TE or other buffer of minimal ionic strength instead of water. DNA may denature if diluted and stored in dH_20.

2 

Mix gently by pipetting.

3 

Load onto the agarose gel.

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