

NBS

Electrophoresis

revised: 23/02/11

DNA Ladder Plus (Ready-to-Use) Handbook (inc. protocol)

DNA Ladder Plus are supplied premixed with loading dye and ready-to-use. All fragments are precisely quantified and mixed to produce sharp bands with bright references. These 'plus' ladders offer an extended sizing range and are available in 50bp, 100bp and 1kb sizes.



50bp



100bp

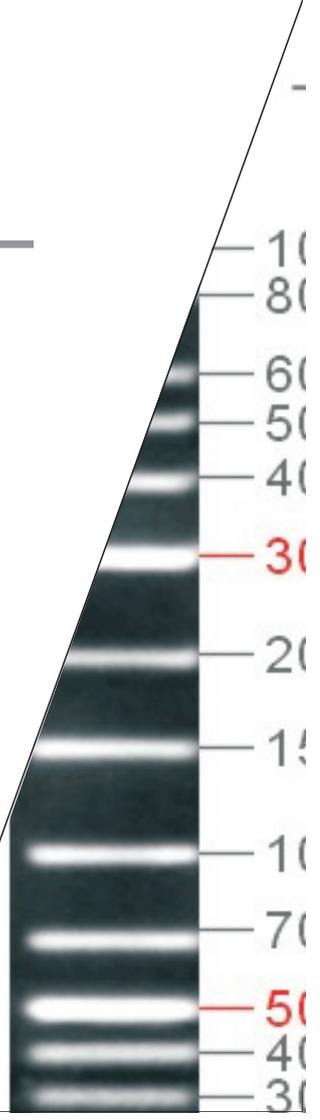


1kb

Cat. No	Description	Quantity
NBS-LP50	50bp Ladder Plus	50µg
NBS-LP100	100bp Ladder Plus	50µg
NBS-LP1K	1kb Ladder Plus	50µg

Please visit our website..

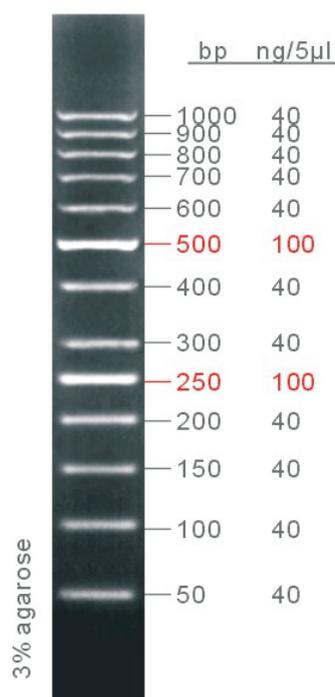
www.nbsbio.co.uk



50bp Ladder Plus

Product Code: NBS-LP50
Pack Size: 50µg (for 130 applications)
Concentration: 128ng/µl

Recommended Loading
3 µl/Lane



5 µl/lane, 8 cm gel
0.5×TBE, 5 V/cm, 1 h

Band Concentration

Reference Bands: 100 ng/5µl
Other Bands: 40 ng/5µl

Contents

This ladder is composed of thirteen DNA fragments (in base pairs) and contains two reference bands (500 and 250).

1000, 900, 800, 700, 600, 500, 400,
300, 250, 200, 150, 100, 50.

Storage

1 year at room temperature, for long-time preservation please store at -20°C .

Description

50bp ladder plus is ideal for determining the size of double-stranded DNA from 50 to 1000 base pairs. The ladder consists of 13 linear double-stranded fragments with the 250bp and 500bp fragments present at increased intensity to allow easy identification. All fragments are precisely mixed and quantified with the band concentrations (for 5µl loading) set at 40ng for standard bands and 100ng for the reference bands. This ladder is pre-mixed with loading dye and ready to use.

Recommendations

Do not heat before loading.

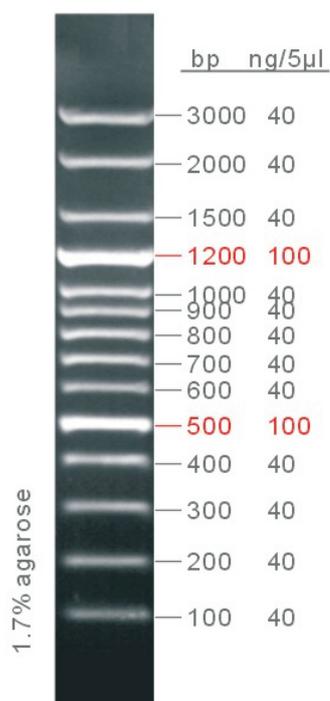
For quantification, adjust the concentration of the sample to equalise it approximately with the amount of DNA in the nearest band of the ladder.

Visualise DNA by staining with Ethidium Bromide or SafeView Nucleic Acid Stain (NBS-SV).

100bp Ladder Plus

Product Code: NBS-LP100
Pack Size: 50µg (for 122 applications)
Concentration: 136ng/µl

Recommended Loading
3 µl/Lane



Band Concentration

Reference Bands: 100 ng/5µl
Other Bands: 40 ng/5µl

Contents

This ladder is composed of fourteen DNA fragments (in base pairs) and contains two reference bands (1200 and 500).

3000, 2000, 1500, 1200, 1000, 900, 800, 700, 600, 500, 400, 300, 200, 100.

5 µl/lane, 8 cm gel
0.5×TBE, 5 V/cm, 1 h

Storage

1 year at room temperature, for long-time preservation please store at -20°C .

Description

100bp ladder plus is ideal for determining the size of double-stranded DNA from 100 to 3000 base pairs. The ladder consists of 14 linear double-stranded fragments with the 500bp and 1200bp fragments present at increased intensity to allow easy identification. All fragments are precisely mixed and quantified with the band concentrations (for 5µl loading) set at 40ng for standard bands and 100ng for the 500bp and 1200bp reference bands. This ladder is pre-mixed with loading dye and ready to use.

Recommendations

Do not heat before loading.

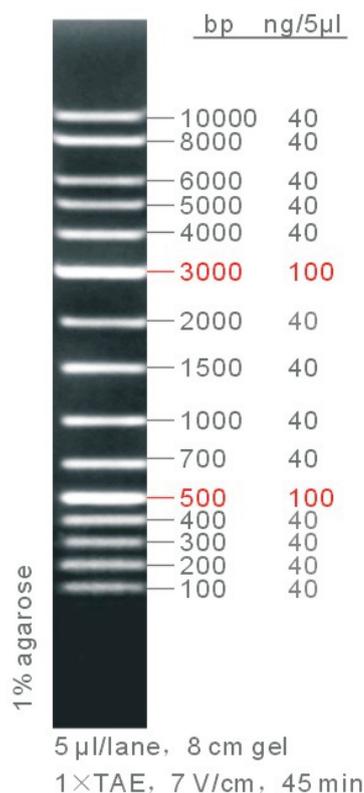
For quantification, adjust the concentration of the sample to equalise it approximately with the amount of DNA in the nearest band of the ladder.

Visualise DNA by staining with Ethidium Bromide or SafeView Nucleic Acid Stain (NBS-SV).

1kb Ladder Plus

Product Code: NBS-LP1K
Pack Size: 50µg (for 115 applications)
Concentration: 144ng/µl

Recommended Loading
3 µl/Lane



Band Concentration

Reference Bands: 100 ng/5µl
Other Bands: 40 ng/5µl

Contents

This ladder is composed of fifteen DNA fragments (in base pairs) and contains two reference bands (3000 and 500).

10000, 8000, 6000, 5000, 4000, 3000, 2000, 1500, 1000, 700, 500, 400, 300, 200, 100.

Storage

1 year at room temperature, for long-time preservation please store at -20°C .

Description

1 kb ladder plus is ideal for determining the size of double-stranded DNA from 100 to 10,000 base pairs. The ladder consists of 15 linear double-stranded fragments with the 500bp and 3000bp fragments present at increased intensity to allow easy identification. All fragments are precisely mixed and quantified with the band concentrations (for 5µl loading) set at 40ng for standard bands and 100ng for the 500bp and 3000bp reference bands. This ladder is pre-mixed with loading dye and ready to use.

Recommendations

Do not heat before loading.

For quantification, adjust the concentration of the sample to equalise it approximately with the amount of DNA in the nearest band of the ladder.

Visualise DNA by staining with Ethidium Bromide or SafeView Nucleic Acid Stain (NBS-SV).