

SciPhi™ 1 kb DNA Ladder,

Ready to use

Catalog Number – NXG111

Cat. No.	Product Description	Volume	Storage
NXG111	SciPhi™ 1 kb DNA Ladder	5 x 50 µg for 500 applications	Store at room temperature or at 4°C for periods up to 6 months
	6X DNA Loading Dye	2 x 1 ml	For longer periods, store at -20°C

Product Description

SciPhi™ 1 kb DNA Ladder is designed for sizing and approximate quantification of wide range double-stranded DNA on agarose gel. The ladder is composed of fourteen chromatography purified individual DNA (in base pairs): 10000, 8000, 6000, 5000, 4000, 3500, 3000, 2500, 2000, 1500, 1000, 750, 500, 250. Ladder contains three reference bands (6000, 3000 and 1000 bp) for easy orientation. The ladder is ready to use – it is premixed with 6X DNA Loading Dye for direct loading on gel.

Loading and Storage Buffer

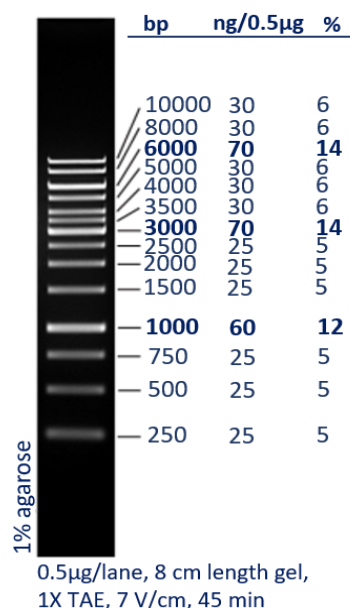
Composition: 10 mM Tris-HCl (pH 7.6), 10 mM EDTA, 0.005 % bromophenol blue, 0.005 % xylene cyanol FF, 0.025 % orange G and 10 % glycerol.

6X DNA Loading Dye Composition:

10 mM Tris-HCl (pH 7.6), 0.03 % bromophenol blue, 0.03 % xylene cyanol FF, 0.15 % orange G, 60 % glycerol and 60 mM EDTA.

Instruction for loading DNA ladder:

Mix gently and load 1 µL per 1 mm gel lane.



Suggestions & Recommendations

- Do not heat before loading.
- Dilute your DNA sample with the 6X DNA Loading Dye (Cat#NXG112, supplied with the ladder: mix 1 volume of the dye solution with 5 volumes of the DNA sample.
- Load the same volumes of the DNA sample and the DNA ladder.
- For quantification, adjust the concentration of the sample to equalize it approximately with the amount of DNA in the nearest band of the ladder.
- For DNA band visualization with SYBR™ Green and other intercalating dyes, do not add the dyes into the sample, use gel staining after electrophoresis or include dyes into agarose gel to avoid aberrant DNA migration.

Troubleshooting:

For troubleshooting please email us at info@nextgenlife.com.

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