

SciPhi™ 1 Kb DNA Ladder,

Ready to use

Catalogue# NXG111-L/M/S/XS

Catalogue No.	Product Components		
	SciPhi™ 1Kb bp DNA Ladder		SciPhi™ 6X DNA Loading Dye
	Volume	Application	Volume
NXG111-L	500 µl	500	400 µl
NXG111-M	250 µl	250	200 µl
NXG111-S	100 µl	100	80 µl
NXG111-XS	10 µl	10	Not provided

Store at 4°C for up to 6 months. For prolonged 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

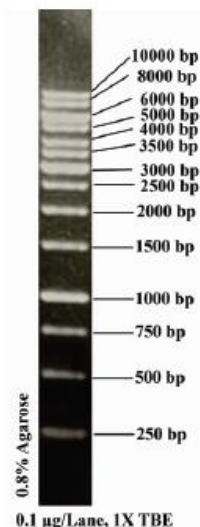
Composition: 10 mM Tris-HCl (pH 7.6), 10 mM EDTA, 0.005 % bromophenol blue, 0.005 % xylene cyanol FF, 0.025 % orange G and 10 % glycerol.

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 techteam@nextgenlife.com; info@nextgenlife.com.

NEXTGEN LIFE SCIENCES PVT. LTD.

F 44-45, Pankaj Central Market, I. P. Extension, Patparganj, Delhi-110092