

SciPhi™ 50 bp DNA Ladder,

Ready to use

Catalog Number – NXG131

Catalogue No.	Product Components		
	SciPhi™ 50 bp DNA Ladder		6X DNA Loading Dye
	Volume	Application	Volume
NXG131-L	500 µL	500	400 µL
NXG131-M	250 µL	250	200 µL
NXG131-S	100 µL	100	80 µL
NXG131-XS	10 µL	10	Not provided
Store at 4°C for periods up to 6 months. For longer periods, store at -20°C			

Product Description

SciPhi™ 50 bp DNA Ladder is designed for sizing and approximate quantification of wide range double-stranded DNA on agarose gel. The ladder is composed of thirteen chromatography purified individual DNA (in base pairs): 1000, 900, 800, 700, 600, **500**, 400, 300, **250**, 200, 150, 100, 50. Ladder contains two reference bands (500 and 100 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

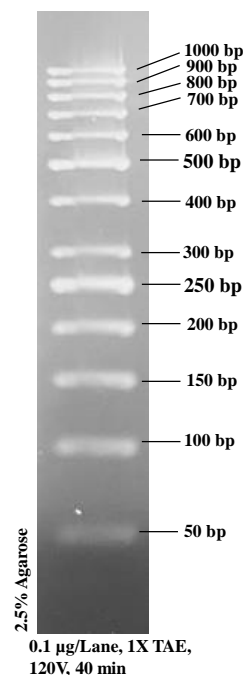
Composition: 10 mM Tris-HCl (pH 7.6), 10 mM EDTA, 0.005 % bromophenol blue, 0.005 % xylene cyanol FF, 0.025 % orange G and 10 % glycerol.

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.

NEXTGEN LIFE SCIENCES PVT. LTD.

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