

Product Information

ExactMark 100bp DNA Ladder (100-1,500 bp), Ready to Use, 100µg

C/No.	BIO-5130-100ug
Concentration	0.1µg/µl
Packaging	2 X 50µg (200 applications)
Storage	25°C – 6 months -20°C – 24 months

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Description

Used for sizing and approximate quantification of wide range double-stranded DNA on agarose gel. The ladder is composed of eleven individual DNA fragments (in base pairs): **1500**, 1000, 900, 800, 700, 600, **500**, 400, 300, 200 and 100. It contains two reference bands of 1500 and 500bp for easy orientation. Orange G and xylene cyanol FF are used as tracking dyes.

Storage Buffer

10mM Tris-HCl (pH 8.0)
1mM EDTA

Quality Control Assay Data

Well-defined bands are formed upon running of agarose gel electrophoresis. The DNA concentration is determined with spectrophotometry. The absence of nucleases is confirmed by a direct nuclease activity assay.

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Protocol for Loading

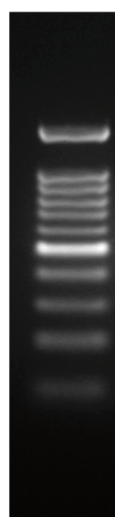
Load 5µl of the solution into a 5mm agarose gel lane.

It is recommended to load 1µl (0.1µg) of DNA ladder per 1mm of gel lane.

Recommendations

- Do not heat solution prior to loading.
- Mix 1 part of dye solution with 5 parts of DNA sample.
- Load equivalent amount of DNA sample and ladder.
- Adjust sample concentration to be approximately equal to the amount of DNA in the nearest band of the ladder for quantification purpose.
- Visualize DNA by staining with FloroSafe DNA stain (C/No: BIO-5170-1ml).

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bp	DNA Mass (ng/5µl)	C/No. BIO-5130 ExactMark 100bp DNA Ladder (100-1,500 bp)
1,500	72.5	Gel running conditions: 1.7% Agarose gel (C/No: BIO-1000) 0.5µg/lane, 10cm gel, 1X TAE (C/No: BUF-3000/BUF-3001), 8V/cm, 2hrs
1,000	50	
900	40	
800	40	
700	27.5	
600	30	
500	85	
400	40	
300	35	
200	40	
100	40	

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