Product Information

ExactMark 1kb DNA Ladder (250-10,000 bp), Ready to Use, 100µg

C/No.	BIO-5140-100ug
Lot No.	1A1010HW1052
Expiry Date	11/2013
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 thirteen individual DNA fragments (in base pairs): 10000, 8000, 6000, 5000, 4000, **3000**, 2500, 2000, 1500, **1000**, 750, 500, and 250. It contains two reference bands of 3000 and 1000bp for easy orientation. Bromophenol blue is used as tracking dye.

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.

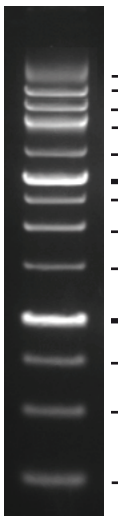
Protocol for Loading

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).



bp	DNA Mass (ng/5µl)
10,000	28
8,000	28
6,000	28
5,000	28
4,000	18
3,000	**92**
2,500	34
2,000	34
1,500	20
1,000	**92**
750	23
500	30
250	45

C/No. BIO-5140
ExactMark 1kb DNA Ladder (250-10,000 bp)

Gel running conditions:
1% Agarose gel (C/No: BIO-1000) 0.5µg/lane, 10cm gel, 1X TAE (C/No: BUF-3000/BUF-3001), 8V/cm, 2.5hrs