Certificate of Analysis

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

C/No. BIO-5140-250ug
Lot No. 1A0212WG2146
Expiry Date 11/2013
Concentration 0.1µg/µl

Packaging 5 X 50μg (500 applications) Storage 25°C – 6 months

-20°C – 24 months





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-HCI (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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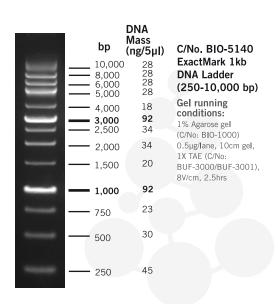
Protocol for Loading

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

It is recommended to load $1\mu\text{I}$ (0.1 $\mu\text{g})$ 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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