EUROMEDEX

CERTIFICATE OF ANALYSIS

DNA Ladder Mix

#03B-1311 250 (5x 50) µg
(for 500 applications)

Lot Exp. date:

Concentration: 0.5 µg/µl

Supplied with 2x 1 ml of 6X TriDye DNA Loading Solution

Store at -20°C

In total 7 vials

Description
The DNA Ladder Mix is designed for sizing and approximate quantification of wide range double-stranded DNA fragments on agarose gel. The ladder is composed of 21 chromatography-purified DNA fragments (in base pairs): 10000, 8000, 6000, 5000, 4000, 3500, **3000**, 2500, 2000, 1500, 1200, **1000**, 900, 800, 700, 600, **500**, 400, 300, 200, and 100. It contains three reference bands (3000, 1000 and 500 bp) for easy orientation.
The ladder is dissolved in TE buffer.

Storage Buffer (TE buffer)
10mM Tris-HCl (pH 7.6), 1mM EDTA.

6X TriDye DNA Loading Solution
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.

Protocol for Loading
Loading mixture for the 5mm agarose gel lane*****:

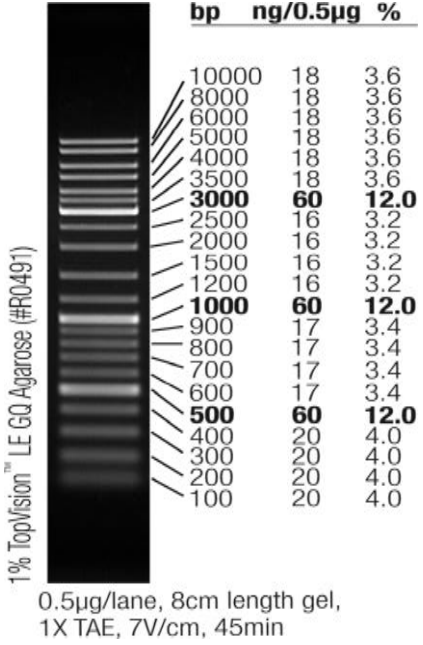
- DNA Ladder	1µl
- 6X TriDye DNA Loading Solution	1µl
- Deionized water	4µl
Total	6µl

Step 1: Mix gently
Step 2: Load on the gel

***** For gels with other lane widths, the components of the mixture should be scaled either up or down. Use 0.2µl (0.1µg) of DNA Ladder per 1mm of lane.

Recommendations
- Do not heat before loading.
- Dilute your DNA sample with the 6X TriDye DNA Loading Solution (#10-0611, 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.
- **Important note:** For DNA bands visualization withGelRed™ use gel staining after electrophoresis to avoid aberrant DNA migration.

DNA Ladder Mix



QUALITY CONTROL ASSAY DATA

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

PRODUCT USE LIMITATION.

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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