

Thermo Scientific GeneRuler 50 bp DNA Ladder, ready-to-use

Pub. No. MAN0013018

Rev. Date 12 February 2018 (Rev. C.00)

Components	#SM0373
GeneRuler 50 bp DNA Ladder, ready-to-use, 0.1 μg/μL	50 µg (for 100 applications)
6X TriTrack DNA Loading Dye	1 mL

Store at room temperature or at 4°C for up to 6 months. For longer periods store at -20°C.

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Description

Thermo Scientific™ GeneRuler™ 50bp DNA Ladder, ready-to-use, is designed for sizing and approximate quantification of wide range double-stranded DNA on agarose and polyacrylamide gels. The ladder is composed of thirteen chromatography-purified individual DNA fragments (in base pairs): 1000, 900, 800, 700, 600, 500, 400, 300, 250, 200, 150, 100, 50. It contains two reference bands (500 and 250 bp) for easy orientation. The ladder is ready to use – it is premixed with 6X TriTrack DNA Loading Dye for direct loading on gel.

Storage and Loading Buffer

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 TriTrack DNA Loading Dye

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

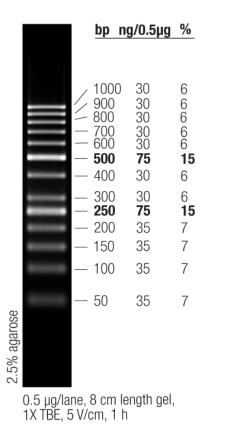
Step 1: Mix gently

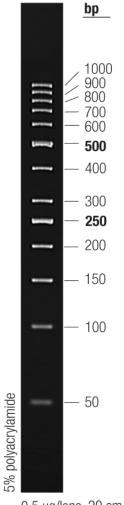
Step 2: Load 1 µL per 1 mm gel lane

Recommendations

- Do not heat before loading.
- Dilute your DNA sample with the 6X TriTrack DNA Loading Dye (#R1161, 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 with GelRed™ use gel staining after electrophoresis to avoid aberrant DNA migration.

GeneRuler 50 bp DNA Ladder, ready-to-use





0.5 μg/lane, 20 cm length gel, 1X TAE, 8 V/cm, 3 h

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