



DNA Ladder III

DNA Concentration: 103µg/ml (+/- 1%)
Lot #: 20031

Cat. No.	Size	Volume
42-424	200 lanes	1 x 1.0 mL
42-425	500 lanes	1 x 2.5 mL

Reagent for in-vitro laboratory use only

Description

DNA Ladder III is a broad range dsDNA Ladder with bands from 80bp to 10Kb. The ladder can be used to quantitate the amount of DNA in a sample since the mass of DNA in each band in the ladder has been calibrated to range from 4 to 50ng (see figure).

The ladder is supplied in “ready-to-load” format in modified Type IV gel loading buffer: Tris-EDTA, pH8.5, 8% sucrose, 0.05% Bromophenol Blue.

Composition of Storage Buffer

Tris-EDTA, pH8.5, 8% sucrose, 0.05% Bromophenol Blue.

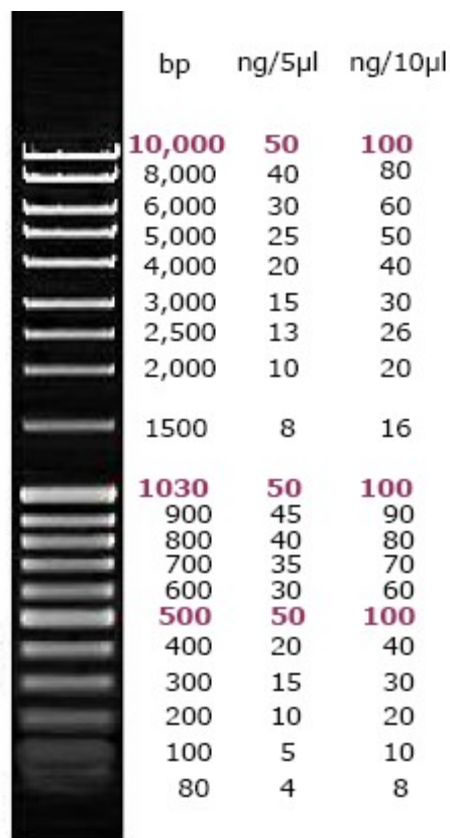
Storage Conditions

Apex custom DNA ladders may be kept safely at room temp. for at least 3 months. Ladders are guaranteed for 12 months from date of shipment when stored at 4°C. Aliquot product if necessary to avoid repeated freezing and thawing cycles.

Quality Control

Agarose gel analysis shows that all bands are present at the expected location and band intensity.

Shipped via overnight carrier at ambient temp.



5 µL DNA Ladder/lane, 1% agarose in 1X TAE stained with ethidium bromide

Suggestions for use

- **Important:** Mix ladder briefly before use. Do not heat the ladder.
- Load 5 µL of ladder per lane for gel wells of ~5-10mm width. This translates to the indicated ng/band (see Fig.)
- Agarose gel electrophoresis: Prepare 1% gel. The dye should migrate 60 - 70% the length of the gel.
- Polyacrylamide gel electrophoresis: Prepare 8% gel. The dye should migrate approx. 90% the length of the gel.
- Ethidium bromide (0.5 µg/mL) is the recommended gel stain.

FOR RESEARCH USE ONLY

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