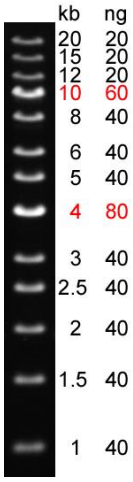
1 kb plus DNA ladder, ready-to-load

Catalog No. 10005S: 100 gel lanes
Catalog No. 10005L: 400 gel lanes
Concentration: 87 ng/μl
Storage: at 4°C for periods up to 6 months. For longer periods, store at -20°C.



Description

- For sizing and quantification of double strand DNA fragments.
- Composed of 13 bands as shown on right. The 10 kb and 4 kb bands with higher concentration are easily distinguishable from the others.
- Premixed with 6X DNA loading buffer for direct gel loading.

Protocol

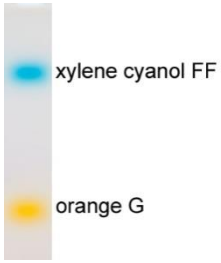
1. Load 6 μl of DNA ladder per gel lane (or 1.2 μl per 1 mm gel lane).
2. Mix 1 volume of 6X DNA loading buffer with 5 volume of DNA sample, load mixture on gel.
3. Perform electrophoresis.

Reagents Supplied

6X DNA loading buffer (1.5 ml)

- 6X DNA loading buffer is used for loading DNA samples on gels. It contains two dyes, xylene cyanol FF and orange G for visual tracking of DNA migration during electrophoresis.
- Add 1/6 volume of 6X DNA loading buffer to DNA samples.
- 6X DNA loading buffer can be ordered separately (Cat. No. 10010).

DNA fragment size	agarose gel concentration	xylene cyanol*	orange G*
200 bp - 4 kb	2.00%	1.0 bp	5 bp
200 bp - 4 kb	1.80%	1.8 kb	5 bp
500 bp - 10 kb	1.20%	4.0 kb	10 bp
500 bp - 10 kb	1.00%	4.5 kb	50 bp
1 kb - 30 kb	0.60%	12 kb	100 bp



* in 1X TAE buffer, approx.

Quality Control

- Agarose gel analysis: DNA bands are accurate in size and distinguishable.
- DNA ladder did not show visible degradation after incubation overnight at 37°C

Product Use Limitation

This product is developed and sold for research purposes and *in vitro* use only. Please refer to BioDynami.com for Material Safety Data Sheet of the product.

BioDynami

601 Genome Way, Huntsville, Alabama 35806, USA
https://BioDynami.com
support@BioDynami.com

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