



Cyrusbioscience

Product datasheet

DNA Ladder Marker, 20bp

Cat. Number: 2008

Description:

This ladder consists of 25 blunt ended DNA bands at exactly 20bp to 500bp in 20bp increments. A high intensity 100bp bands facilitates band identification. G+C content of all bands is 50%.

Storage:

Storage buffer: 10 mM Tris-HCl, 1 mM EDTA, (pH 8.0) (TE Buffer).

Store at -20°C or below.

Range: 20bp to 500bp

Package: 2x100ul, with 6x DNA loading buffer 1ml.



3% metaphor agarose gel showing bands from 20 bp to 500 bp in 20 bp increments. The bottom band is 20 bp, and the intense band is 100 bp.

Tips for Achieving the Best Results

- (1) For best resolution of 20 bp to 400 bp, use a high sieving agarose (such as 3.0% metaphor agarose). Bands above 400 bp are visible but may require a longer run time to resolve and a slightly more concentrated working solution to see well.
- (2) Stain the gel thoroughly with ethidium bromide, otherwise the bands may be difficult to see.
- (3) The 20 bp ladder can also be used in polyacrylamide gel electrophoresis (PAGE). PAGE separates by size and by shape of the DNA. Therefore, two sequences of the same size may migrate differently in PAGE. The 20 bp ladder can be used as a reference point in PAGE. Use 2 ul of Stock Solution per loading, diluted in a PAGE loading buffer. Bands can be seen by ethidium bromide staining. The stock solution should provide 250 loadings for PAGE.
- (4) To facilitate identification of bands above 200 bp, it is helpful to run a 100 bp DNA ladder in an adjacent lane.