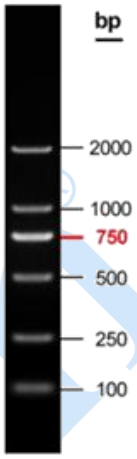
Gelred-prestained DNA Ladder (100-2000bp)

G751634

Store at 2-8℃ (-20℃ for long term storage)

Introduction:

The DNA Ladder consists of 6 individual chromatography-purified DNA fragments ranging in size from 100 bp to 2000 bp. The band at 750 bp is included for easy orientation. The ladder is stored in a 1xLoading Buffer, with dense bands that require high concentration gel and low voltage electrophoresis. It is suitable for accurately confirming the size of DNA fragments.



5uL/lane, 1 x TAE buffer, 1.5% agarose

Usage method:

1. For DNA agarose gel electrophoresis, add 5μL of this product directly into an empty well on agarose gel and increase the sample size appropriately for wide adhesive holes.
2. Use 1.5-2.0% Agarose or 5% PAGE gel, voltage 4-10 v/cm, and 1xTAE buffer for electrophoresis. Replacing the electrophoresis buffer in time and using the fresh gel to achieve results.
3. Mix the samples to be tested with the accompanying 5x Loading Buffer at a ratio of approximately 4:1, and then load into the gel sample wells.
4. Using this product system, there is no need to add any nucleic acid dye in agarose gel.
5. The 5x Loading Buffer included in the product is used for mixing with the samples to be tested before loading, and it contains both bromophenol blue and xylene cyan FF as dual indicators.
6. If there are a large number of samples that can be directly loaded for electrophoresis testing, it is recommended to use the Gelred gel method for detection, without pre-mixing the samples, which can greatly save experimental time.

Precautions

1. This product is already preserved in 1x Loading Buffer and can be directly used for electrophoresis
2. If ethidium bromide (EB), a strong carcinogen, is used for DNA electrophoresis, please take care to avoid the contamination of this product by EB during frequent uses. Pre-stained proteins have different apparent molecular weights in different buffer systems. If non pre stained proteins are calibrated in advance in this buffer system, the protein molecular weight can be roughly determined.
3. 5x Loading Buffer can be used for sample detection, store at 2-8℃ and protect from light.