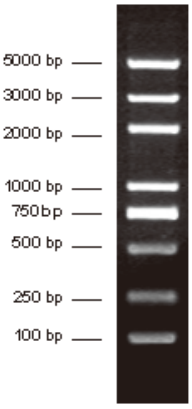
GeneRange DNA ladder III

Product information:
GeneRange DNA ladder III This preparation consists of 8 linear double The GeneRange DNA ladder is an ideal reference for DNA molecular weight standards in agarose gel electrophoresis. It comprises 8 linear double-stranded DNA bands that are premixed with loading buffer, providing clear, sharp and stable band patterns. The band sizes are accurate and include 100, 250, 500, 750, 1000, 2000, 3000, and 5000 bp. The 750 bp band has the highest concentration of approximately 20 ng/µl, while the remaining bands are approximately 10 ng/µl. This sample can be used for a rough estimate of the size of similar DNA fragments.

Components	Cat.No.: A005-1	Cat. No.: AN005-2	storage
GeneRange DNA ladder III	250µl	5x 250µl	-20°C



This product is intended for use by trained laboratory personnel only. It is important to follow proper laboratory safety protocols when handling this product. This includes wearing appropriate protective eyewear, clothing, and gloves to reduce the risk of exposure. In the event of contact with skin or eyes, rinse immediately with copious amounts of water and seek medical attention if necessary.

1.5% TAE Agarose gel
loading 5 µl (EB staining)

Storage solution components:
10 mM TrisCl (pH 8.4)，10 mM EDTA，0.02% Bromphenol，5%Glycerol.

Use procedure:
1. For best results, it is recommended to use 1.0-2.0% agarose gel electrophoresis. However, it is not recommended for polyacrylamide gel electrophoresis.
2. The electrophoresis buffer should be either 1x TAE or 0.5-1x TBE, with the voltage set between 6-8 V/cm of gel length. The electrophoresis time should be approximately 20-40 minutes. If a voltage of 20-30 V/cm is used, the electrophoresis time should be 10-15 minutes.
3. 5-10 µl of the product should be carefully pipetted into the loading well using a sterilized pipette tip, ensuring the width of the loading well is considered.
4. Electrophoresis should start after the addition of the DNA sample to be analyzed.
5. After electrophoresis is completed, the bands can be visualized by staining with ethidium bromide or other DNA dyes.

Shipping and storage:
Upon receiving the product, store the product at suggested conditions. Shipping and temporary storage for up to 30 days at room temperature has no detrimental effects on the quality of the product. -20˚C constant temperature for long-term storage, 4˚C for one year and at room temperature for three months; Avoid repeated freezing and thawing.

Note:
1. To ensure optimal results, it is recommended to store this product at room temperature for a period of three months without experiencing any change in the band pattern. However, it is advised to cryopreserve the product to avoid degradation of the bands that may result from nuclease contamination during handling.
2. It is important to avoid heating the product before use.
3. In order to maintain the resolving effect, it is crucial to replace the electrophoresis buffer in a timely manner when its capacity decreases.

Technical support:
If you have any questions or concerns, please don't hesitate to reach out to our support team at support@angneovo.no. Our knowledgeable and friendly team is available to assist you and ensure a positive experience with our product.

Disclaimer And Warranty:
This product is compliant with its relevant specifications and intended for its stated purpose. However, ANGENOVO AS does not provide any other warranty or guarantee regarding the product's description or quality. Any such warranties or guarantees are explicitly excluded to the fullest extent allowed by law. ANGENOVO AS will not be held liable for any special, incidental, indirect, multiple or consequential damages related to or arising from the use of this product. The liability of ANGENOVO AS will not be limited or excluded for death or personal injury caused by its negligence, fraud, or fraudulent misrepresentation or any matter where it would be illegal to exclude or restrict such liability.

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