

Product Data Sheet

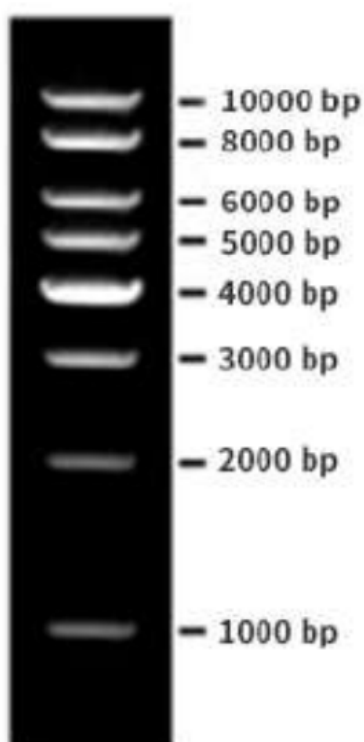
Product Name: DNA Ladder(1-10kb,8 bands)
Cat. No.: GF55002

Product description

GF55002 is produced in accordance with cGMP standards. This product is used for the estimation and rough quantification of the size of double-stranded DNA molecules ranging from 1000-10000bp in agarose gel electrophoresis. This product is a blue solution and is a ready-to-use DNA molecular weight standard pre-mixed with loading buffer. It consists of 8 linear double-stranded DNA bands of 1000, 2000, 3000, 4000, 5000, 6000, 8000, and 10000bp. The storage solution contains 10mM Tris-Cl (pH 8.4), 10mM EDTA, 0.02% bromophenol blue, and 5% glycerol. Among all the bands, the 4000bp band has the highest concentration at 20ng/μL, while the other bands have a concentration of 10ng/μL. This product greatly reduces the operation time, thereby minimizing the possibility of nuclease contamination and ensuring clear DNA bands.

product specification

GF55002	DNA Ladder(1-10 kb, 8 bands)	250μl	500μl
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1.0% TAE agarose gel
Load 5μL, stained with EB

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Product transportation and storage conditions

【Shipping】 This product is shipped with ice packs.

【Storage】 Store at -20°C for up to 1 year or at 2-8°C for up to 6 months. Avoid repeated freeze-thaw cycles.

Instructions for use

1. This product is suitable for 1.0~2.0% agarose gel electrophoresis (it is recommended to add ethidium bromide/EB or other DNA dyes to the gel preparation). It is not recommended for polyacrylamide gel electrophoresis.
2. Use a pipette to take 5~10 L of this product and add it to the loading well.
3. Begin electrophoresis after adding the DNA sample to be tested.
4. For electrophoresis buffer, either 1X TAE or 0.5~1X TBE can be used, at a voltage of 6~8V/cm, running for 30~60 minutes; or use Biosun® rapid DNA electrophoresis buffer at a voltage of 20~30 V/cm, running for 10~15 minutes.
5. After the electrophoresis is completed, observe the electrophoresis bands under different excitation lights based on the chosen dye.

Precautions

1. Upon testing, the band pattern of this product remains unchanged when placed at room temperature for 3 months. However, it's recommended to store at low temperatures to prevent band degradation due to unintentional nuclease contamination.
2. Do not heat before use.
3. Replace the electrophoresis buffer promptly when its buffering capacity decreases to avoid affecting resolution.
4. This product is for scientific research purposes only by professionals. It should not be used for clinical diagnosis or treatment, nor should it be used in food or drugs, and it should not be stored in regular households.
5. For your safety and health, please wear a lab coat and use disposable gloves when handling.

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