

5 kb DNA Marker

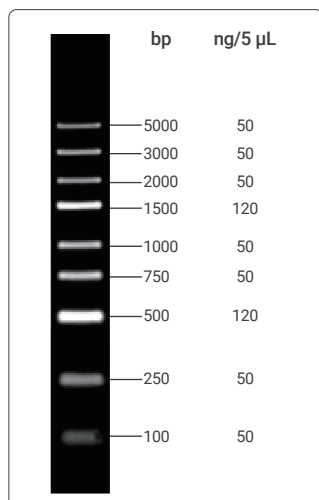
1 Contents

Components	HY-K0807-250 μ L	HY-K0807-500 μ L	HY-K0807-1 mL
5 kb DNA Marker	250 μ L	250 μ L \times 2	250 μ L \times 4

2 Introduction

The 5 kb DNA Marker is provided in a solution of 1 \times DNA Loading Buffer, which can be directly used for nucleic acid electrophoresis analysis. The Marker contains 9 double-stranded DNA fragments ranging from 100 bp to 5000 bp. 5 μ L of this product contains about 120 ng for the 500 bp and 1500 bp bands, and about 50 ng for the other bands.

3 Electrophoresis illustration



1.2% Agarose 1 \times TAE Buffer
5 μ L/lane 7 V/cm, 30 min

4 Protocol

1. Add 5 μ L of 5 kb DNA Marker to sample well of the agarose gel and perform electrophoresis.
2. After electrophoresis, stain with Nucleic Acid Gel Stain and detect the electrophoresis results.

Note: a) 1.0-2.0% agarose gel at 5-10 V/cm and 1 \times TAE Powder are recommended.

- b) Adjust the loading volume of DNA Marker for different loading well format.
- c) Pre-dyeing or post-dyeing is suitable when using the Nucleic Acid Gel Stain.

5 Storage

-20°C, 2 years.

Avoid repetitive freeze-thaw cycles.

6 Precautions

1. For short-term use, DNA Marker may be stored at 2-8°C.
2. Replace the electrophoresis buffer in time and use fresh agarose gels to achieve better electrophoretic results.
3. This product is for R&D use only, not for drug, household, or other uses.
4. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

7 Recommended products used for Nucleic Acid Gel Electrophoresis

Cat. No	Name	Application
HY-K1031	Agarose	
HY-K1029	Agarose With TAE Powder (1%)	Agarose gel
HY-K1016	TBE Powder (1 L of 1x)	
HY-K1015	TAE Powder (1 L of 1x)	Electrophoresis buffer
HY-K1017	Rapid Running Buffer Powder (1 L of 1x)	
HY-K1004	SYBR Green I Nucleic Acid Gel Stain	Nucleic Acid Gel Stain
HY-K1007	Red Nucleic Acid Gel Stain (10,000x)	