

Version No.: FAL1728

## GenFQ 100 bp DNA Ladder

**GenFine Code:** J104-01, J104-02**Storage condition:** Transportation at  $\leq 0^{\circ}\text{C}$ , store at  $-30 \sim -15^{\circ}\text{C}$ , Valid period 2 years. For frequent use, it can be stored at  $4^{\circ}\text{C}$  for 6 months. Avoid repeated freezing and thawing.**Description:**

GenFQ 100 bp DNA Ladder is a read-to-use DNA molecular weight standard with a premixed loading buffer. It consists of double-stranded DNA fragments of 11 specific molecular weight and is suitable for estimating and roughly quantifying the molecular size of double stranded DNA molecules between 100 bp and 1.5 kb. The size and concentration of each band are shown in Table 1.

**Components:**

Components	J104-01 (50 rxns)	J104-02 (250 rxns)
GenFQ 100 bp DNA Ladder	250 $\mu\text{l}$	250 $\mu\text{l} \times 5$

Storage fluid composition: 10 mM Tris-HCl (pH 8.4), 10 mM EDTA, 0.02% Bromophenol Blue, 5% Glycerol.

**Protocol:**

1. This product is recommended for 0.8-2.0% agarose gel electrophoresis, not recommended for polyacrylamide gel electrophoresis.
2. The electrophoretic buffer can be  $1 \times \text{TAE}$  or  $0.5-1 \times \text{TBE}$ , and the voltage between positive and negative electrodes is 6-8 V/cm, and the electrophoretic time is 20-40min.
3. According to the width of the agarose gel wells, take 5-10  $\mu\text{l}$  of the product with the sterilizing spear head and add it into the sample well.
4. After adding the DNA sample, began the electrophoresis.
5. After electrophoresis, the bands are observed under UV light by staining with EB or other nucleic acid dyes.

**Band diagram:**

Bands	Concentration
100 bp	50 ng/5 $\mu$ l
200 bp	40 ng/5 $\mu$ l
300 bp	30 ng/5 $\mu$ l
400 bp	40 ng/5 $\mu$ l
500 bp	100 ng/5 $\mu$ l
600 bp	60 ng/5 $\mu$ l
700 bp	70 ng/5 $\mu$ l
800 bp	80 ng/5 $\mu$ l
900 bp	90 ng/5 $\mu$ l
1000 bp	100 ng/5 $\mu$ l
1500 bp	50 ng/5 $\mu$ l

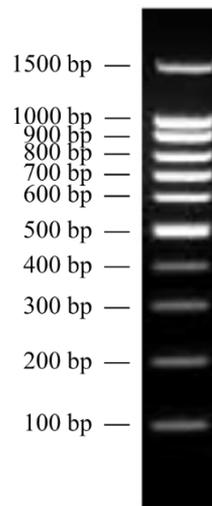
**100bp DNA Ladder**  
 2% Agarose


Table1. Concentration of the bands

**Notes:**

1. The product was placed at room temperature for 3 months with no change in band type by testing. However, low temperature preservation is recommended to prevent DNA degradation due to nuclease contamination.
2. Do not heat before use.
3. Higher concentrations of agarose gel have better separation performance for short fragments of DNA, while lower concentrations of agarose gel facilitate separation of long fragment DNA. According to the actual situation, a suitable concentration of agarose gel can be selected for electrophoresis.
4. When the function of the electrophoresis buffer decreases, it should be replaced in time to avoid affecting the electrophoresis result.

**Contact Information:**

Company: GENFINE BIOTECH (CHANGZHOU) CO., LTD

Address: 4th Floor, Building E4, No.9, Changyang Road, West Taihu Technology Industrial Park, Changzhou City, Jiangsu Province

Tel: +86 051983761557

 E-mail: [marketing@genfine.com](mailto:marketing@genfine.com)

 Web: [en.genfing.com](http://en.genfing.com)

Production&amp;Expiration: See Label

**[Symbols]**

Symbols	Meanings
	Manufacturer
	Authorized representative in the European Community
	<i>In vitro</i> diagnostic medical device
	This product fulfills the requirements of the European Directive 98/79 EC for <i>in vitro</i> diagnostic medical devices.
	Catalogue number
	Batch code
	Date of manufacture
	Use-by date
	Temperature limite
	Consult instructions for use
	Keep dry
	Keep away from sunlight
	Do not re-use
	Do not use if package is damaged



GENFINE BIOTECH (CHANGZHOU) CO., LTD  
 4th Floor, Building E4, No.9, Changyang Road, West Taihu Technology Industrial  
 Park, Changzhou City, Jiangsu Province  
 PEOPLE'S REPUBLIC OF CHINA  
 Tel: +86 051983761557  
 E-mail: [marketing@genfine.com](mailto:marketing@genfine.com)  
 Web: [en.genfing.com](http://en.genfing.com)



Lotus NL B.V.  
 Koningin Julianaplein 10, 1e Verd, 2595AA, The Hague, Netherlands.  
 E-mail: [peter@lotusnl.com](mailto:peter@lotusnl.com)  
 Tel: +31644168999