

# Data Sheet

## 1 kb DNA Ladder Ready to Load

| Cat. No.       | Pack Size  | Volume      |
|----------------|------------|-------------|
| 07-12-0000S    | 1,5 µg     | 15 µl       |
| 07-12-00050    | 50 µg      | 500 µl      |
| 07-12-00050-5  | 5 x 50 µg  | 5 x 500 µl  |
| 07-12-00050-10 | 10 x 50 µg | 10 x 500 µl |

For *in vitro* use only

### Description:

The 1 kb DNA Ladder is a ready-to-use molecular weight marker suitable for DNA fragment size determination on gel electrophoresis. The 1 kb DNA Ladder is formulated to run accurately and to provide crisp band patterns. It contains two dyes: bromophenol blue and xylene cyanole which serve as visual aid to monitor the progress of migration during agarose gel electrophoresis. The 1 kb DNA Ladder contains 13 discrete DNA fragments ranging from 300 bp to 10,000 bp.

| bp       | ng/10µl |
|----------|---------|
| — 10,000 | 80      |
| — 8,000  | 80      |
| — 6,000  | 80      |
| — 5,000  | 80      |
| — 4,000  | 80      |
| — 3,000  | 120     |
| — 2,500  | 123     |
| — 2,000  | 81      |
| — 1,500  | 73      |
| — 1,000  | 41      |
| — 700    | 57      |
| — 500    | 61      |
| — 300    | 44      |

### Concentration:

0.1 µg/µl

### Size range:

300–10,000 bp

### No of Bands:

13

### Recommendation:

For best results, please load 5-10 µl of the 1 kb DNA Ladder per well.

The choice of voltage, time, buffer and agarose % in the gel is adjustable. Example agarose gel electrophoresis run conditions:

- For 1% agarose in 1xTBE, use 150V for a minimum of 45 minutes.
- For 2% Agarose gel in 1xTBE, use 130-150V for a minimum of 2 hours.

### Storage solution:

10 mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.015% xylene cyanole and 0.17% SDS.

### Shipping and Storage conditions:

Routine storage: -18°C to -28°C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of the product.

Manufactured by Solis BioDyne in compliance with the ISO 9001 and ISO 13485 certified Quality Management System.

**FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES**

**Safety warnings and precautions:**

This product and its components should be handled only by persons trained in laboratory techniques. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water. Refer to Safety Data Sheet for more information.

**Technical support:**

Contact your sales representative for any questions or send an email to [support@solisbiodyne.com](mailto:support@solisbiodyne.com)

Online chat is available at [www.solisbiodyne.com](http://www.solisbiodyne.com)

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Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required.

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