

**Catalog no. PC-50DL03**

**Size: 65 µg**

**Concentration:** 650 ng/lane

**Storage:** Store at -20°C

**Shipping:** Shipped on dry/blue ice.

*For in vitro use only!*

ProCyto 50 bp DNA ladder consists of twelve fragments: 50 bp -1000bp

- Supplied at a concentration of 650 ng/µl
- Supplied with 6X blue gel loading dye\*\*
- 50 bp DNA ladder is ideal for separation on 2% agarose gels.

### Product description

ProCyto 50 bp DNA Ladder can be used to determine the size and approximate quantification of double-stranded DNA in the range of 50 bp to 1000 bp.

50 bp DNA Ladder consists of fourteen purified DNA fragments and has reference bands at 250, and 500 bp with increased intensity for easy detection.

### \*\*Composition of Loading Dye:

0.25% Xylene Cyanol CFF

0.25% Bromophenol Blue

60% Glycerol

### Loading Protocol:

- The Ladder is premixed with (6X) gel loading dye.
- Mix gently by pipetting.
- Carefully load 3 µl/ lane on the agarose gel. (We recommend loading 0.65 µg of 50 bp DNA ladder diluted in sample buffer).

Fragments	Base Pairs	DNA Mass
1	1000	35
2	750	35
3	650	30
4	600	30
<b>5</b>	<b>500</b>	<b>80</b>
6	450	35
7	400	35
8	350	35
9	300	35
<b>10</b>	<b>250</b>	<b>80</b>
11	200	35
12	150	35
13	100	60
14	50	80

### Notes:

- ProCyto 50 bp DNA ladder is stable for at least 6 months at 4°C. For long-term storage, store at -20°C.
- For optimum resolution, the recommended Voltage is 5-8 V/cm.



DNA Ladder visualized by ethidium bromide staining on a 2% TAE agarose gel. Mass values are of 0.65 µg/lane