

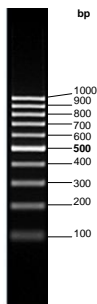
100 bp Ladder - Ready to use (Ref. 31.012)

Concentration: 0.1 mg/ml

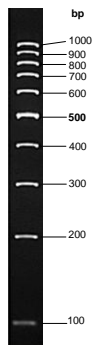
Store at 4°C

Description

The 100 bp DNA Ladder is prepared from plasmid DNA digested to completion with appropriate restriction enzymes to yield bands ranging from 100 bp to 1 kb, suitable for use as molecular weight standards for agarose and polyacrylamide gels. The ladder is composed to 10 chromatography-purified individual DNA fragments (in base pairs): 1000, 900, 800, 700, 600, **500**, 400, 300, 200 and 100. The 500 bp fragment has increased intensity to serve as a reference band.



100 bp Ladder - Ready to Use
0.5µg/lane
1.7% agarose gel
stained with ethidium bromide.



100 bp Ladder - Ready to Use
0.5µg/lane
5% polyacrylamide gel
stained with ethidium bromide.

Storage temperature

Store at 4°C.

Protocol

- 1- Load 5µl onto the agarose gel (1,5 – 2%)
- 2- Visualise DNA by staining with ethidium bromide or with SYBR® Green I.

The 100 bp Ladder – Ready to Use was not designed for precise quantification of DNA mass, but can be used for semi-quantification (see Table 1). For quantification, adjust the concentration of the sample to equalize it approximately with the amount of DNA in the nearest band of the ladder.

Table 1. Percentage and mass of individual fragments for 5µl Ladder 100bp Ready to use (0,5µg)

Fragment	Size	%	mass (ng/0.5µg)
1	1000	9	45
2	900	9	45
3	800	9	45
4	700	9	45
5	600	9	45
6	500	23	115
7	400	8	40
8	300	8	40
9	200	8	40
10	100	8	40

Notice to users

Research and *in vitro* use only.