

Axygen DNA Markers

100 bp Ladder DNA Marker (100-3,000 bp)

The 100 bp DNA Ladder contains 11 discrete DNA fragments ranging in size from 100 bp to 3,000 bp. This marker is ideal for the size determination of PCR products.

bp	ng/10 µl
3,000	108
2,000	147
1,500	116
1,000	77
800	62
700	54
600	46
500	150
400	60
300	56
200	60
100	60

1 Kb Ladder DNA Marker (300-10,000 bp)

The 1 kb DNA Ladder contains 13 discrete DNA fragments ranging in size from 300 bp to 10,000 bp. This marker is ideal for the size determination of digested DNA.

bp	ng/10 µl
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

Broad Range Marker (250-8,000 bp)

The Broad Range marker has 11 discrete fragments:

- 75 ng/10 µl of 8000 bp,
- 75 ng/10 µl of 6000 bp,
- 75 ng/10 µl of 5000 bp,
- 65 ng/10 µl of 4000 bp,
- 90 ng/10 µl of 3000 bp,
- 165 ng/10 µl of 2000 bp,
- 60 ng/10 µl of 1500 bp,
- 210 ng/10 µl of 1000 bp,
- 50 ng/10 µl of 750 bp,
- 60 ng/10 µl of 500 bp,
- 75 ng/10 µl of 250 bp

bp	ng/10 µl
8,000	75
6,000	75
5,000	75
4,000	65
3,000	90
2,000	165
1,500	60
1,000	210
750	50
500	60
250	75

High Range Marker (1,000-10,000 bp)

The High Range marker has 8 discrete fragments:

- 100 ng/10 µl of 10000 bp,
- 100 ng/10 µl of 8000 bp,
- 100 ng/10 µl of 6000 bp,
- 100 ng/10 µl of 5000 bp,
- 100 ng/10 µl of 4000 bp,
- 230 ng/10 µl of 3000 bp,
- 70 ng/10 µl of 2000 bp and
- 200 ng/10 µl of 1000 bp.

bp	ng/10 µl
10,000	100
8,000	100
6,000	100
5,000	100
4,000	100
3,000	230
2,000	70
1,000	200

Low Range Marker (125-3,000 bp)

The Low Range marker has 9 discrete fragments:

- 120 ng/10 µl of 3000 bp,
- 220 ng/10 µl of 2000 bp,
- 65 ng/10 µl of 1500 bp,
- 235 ng of 1000 bp,
- 70 ng/10 µl of 750 bp,
- 80 ng/10 µl of 500 bp,
- 105 ng/10 µl of 250 bp, and
- 105 ng/10 µl of 125 bp.

bp	ng/10 µl
3,000	120
2,000	220
1,500	65
1,000	235
750	70
500	80
250	105
125	105

Quality Control: Each lot is tested under appropriate electrophoresis conditions. The DNA concentration is determined spectrophotometrically and the absence of nucleases is confirmed by appropriate tests. Temperature stability is confirmed by burn-in tests where the DNA marker is subject to storage at 65°C and 95% humidity for 2 weeks.

SPECIFICATIONS :

100 BP AND 1 KB LADDERS

- Each Vial has 500 µl of marker
- Concentration is 1 µg/10 µl
- Recommended Loading: 5-10 µl per lane
- Each vial is sufficient for 100 lanes
- Ready-to-use. Contains Bromophenol Blue Dye

LOW RANGE, HIGH RANGE AND BROAD RANGE LADDERS

- Each Vial has 600 µl of marker
- Concentration is 1 µg/10 µl
- Recommended Loading: 5-10 µl per lane
- Each vial is sufficient for 125 lanes
- Ready-to-use. Contains Bromophenol Blue Dye

Storage and Shelf-life

Ambient conditions (~22°C) for 2 years. Warmer conditions require refrigeration.