

200bp DNA Ladder

Code No. DNA - 031
Lot No. * * * * *
Storage Conditions - 20
Shipping Conditions 4
Size 100 µg
Contents 200bp DNA Ladder × 1
6 × Loading Dye × 1

Certificate of Analysis

Product : A mixture of 33 double-stranded, blunt-ended DNA fragments ranging from 200bp to 6,600bp in exactly 200bp increments.
The 1,000bp band has increased intensity relative to the other bands.
The 200bp DNA Ladder was dissolved in 10mM Tris-HCl (pH8.0) and 1mM EDTA.

Concentration : 1 µg / µl
Volume : 100 µl / tube (100µg / tube)

| Fragment No. | Number of Base Pairs (bps) | Molecular weight ($\times 10^5$ daltons) | Fragment No. | Number of Base Pairs (bps) | Molecular weight ($\times 10^5$ daltons) |
|--------------|----------------------------|---|--------------|----------------------------|---|
| 1 | 6,600 | 44 | 18 | 3,200 | 21 |
| 2 | 6,400 | 42 | 19 | 3,000 | 20 |
| 3 | 6,200 | 41 | 20 | 2,800 | 18 |
| 4 | 6,000 | 40 | 21 | 2,600 | 17 |
| 5 | 5,800 | 38 | 22 | 2,400 | 16 |
| 6 | 5,600 | 37 | 23 | 2,200 | 15 |
| 7 | 5,400 | 36 | 24 | 2,000 | 13 |
| 8 | 5,200 | 34 | 25 | 1,800 | 12 |
| 9 | 5,000 | 33 | 26 | 1,600 | 11 |
| 10 | 4,800 | 32 | 27 | 1,400 | 9.2 |
| 11 | 4,600 | 30 | 28 | 1,200 | 7.9 |
| 12 | 4,400 | 29 | 29 | 1,000 | 6.6 |
| 13 | 4,200 | 28 | 30 | 800 | 5.3 |
| 14 | 4,000 | 26 | 31 | 600 | 4.0 |
| 15 | 3,800 | 25 | 32 | 400 | 2.6 |
| 16 | 3,600 | 24 | 33 | 200 | 1.3 |
| 17 | 3,400 | 22 | | | |

Contaminant assay (Nuclease assay) : After overnight incubation of 200bp DNA Ladder at 37 °C, no visible degradation of the marker is observed after agarose gel electrophoresis.

Recommended handling :
1. Centrifuge tube before opening to improve recovery of content.
2. Mix the marker extremely well before use by pipetting and vortexing.
3. Add 1/5 volume of 6 × Loading Dye to the marker.
4. Load 1 µl of the 200bp DNA Ladder per lane on agarose gels.