

1kb DNA Ladder

Code No. DNA-032
Lot No. * * * * *
Storage Conditions -20
Shipping Conditions 4
Size 90 μ g
Contents 1kb DNA Ladder \times 1
6 \times Loading Dye \times 1

C e r t i f i c a t e o f A n a l y s i s

Product : A mixture of 10 double-stranded, blunt-ended DNA fragments ranging from 1,000bp to 10,000bp in exactly 1,000bp increments.
The 5,000bp band has increased intensity relative to the other bands.
The 1kb DNA Ladder was dissolved in 10mM Tris-HCl (pH7.4) and 1mM EDTA.

Concentration : 0 . 3 μ g / μ l

Volume : 3 0 0 μ l / tube (90 μ g / tube)

Fragment sizes :

fragment No.	Number of Base Pairs(bps)	Molecular weight ($\times 10^5$ daltons)
1	10,000	66
2	9,000	59
3	8,000	53
4	7,000	46
5	6,000	40
6	5,000	33
7	4,000	26
8	3,000	20
9	2,000	13
10	1,000	6.6

Contaminant assay (Nuclease assay) : After overnight incubation of 1kb DNA Ladder at 37 $^{\circ}$ 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 \times Loading Dye to the marker.
4. Load 1 μ l of the 1kb DNA Ladder per lane on agarose gels.