

# Loading Quick™

## 50bp DNA Ladder

Code No.                      **DNA-133**

Lot No.                        **\*\*\*\*\***

Size                            **100 µg**

Contents                      **50bp DNA Ladder × 1**

Product                      :    A mixture of 16 double-stranded DNA fragments ranging from 50bp to 800bp in exactly 50bp increments.  
 The 500bp band has increased intensity relative to the other bands.  
 The 50bp DNA Ladder was dissolved in 10mM Tris-HCl (pH8.0), 5mM NaCl, 10mM EDTA, 5% glycerol, and 0.05% bromophenol blue.

Concentration                :            0.1                    µg / µL

Volume                        :            1,000                µL / tube (100µg /tube)

Fragment sizes	fragment No.	Number of Base Pairs(bps)	Molecular weight (× 10 <sup>5</sup> daltons)
	1	800	5.3
	2	750	5.0
	3	700	4.6
	4	650	4.3
	5	600	4.0
	6	550	3.6
	7	500	3.3
	8	450	3.0
	9	400	2.6
	10	350	2.3
	11	300	2.0
	12	250	1.7
	13	200	1.3
	14	150	0.99
	15	100	0.66
	16	50	0.33

Contaminant assay (Nuclease assay)                :    After overnight incubation of 50bp 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. Load 10µL of the 50bp DNA Ladder per lane on agarose gels.

