FISHER MOLECULAR BIOLOGY

1 Kb DNA Ladder with stain

DESCRIPTION:
The 1 Kb DNA Ladder has a number of proprietary plasmids which are digested to completion with appropriate restriction enzymes to yield 13 bands suitable for use as molecular weight standards for agarose gel electrophoresis.

Base Pairs	DNA Mass, ng	Base Pairs	DNA Mass, ng
10.000	60	2.000	60
8.000	60	1.500	50
6.000	60	**1.000**	210
5.000	60	750	60
4.000	60	**500**	30
3.000	200	250	20
2.500	70		

CONCENTRATION:
200 ug/ml

PACK SIZE:
50 µg

FS-MW-005 50 ug

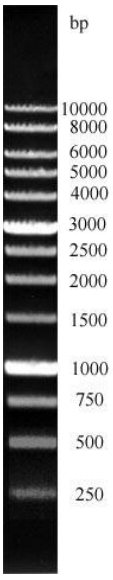
The recommended amount of size marker to load on an agarose gel is 1 µg per lane (10 µl)
Amount of the dye to be added: 1/10 of sample volume
(1 µg of the DNA Ladder = 5 µl , so to prepare mix for loading you need 4,5 µl of the marker + 0,5 µl of the buffer)

Supplied in: 10 mM Tris-HCl (pH 8.0), 1.0 mM EDTA, 50 Mm NaCl.

Loading Buffer 10X: 0.01 Bromophenol blue, 0.25 M EDTA, 50% glycerol.

Usage recommendation: The 1 Kb DNA Ladder was not designed for precise quantification of DNA mass, but can be used for approximating sample DNA mass by comparing the intensity of similar size bands.

To demonstrate the mobility of the DNA fragments, 1 ug of 1 Kb Ladder visualized by Ethidium Bromide staining on 1% TAE agarose gel



Procedure:

50 ug of 1 Kb Ladder can perform from 50 up 100 reactions, depending on the quantity of the Ladder you will load each time.
We recommend to use:
1-3 ul of DNA Ladder for 2-3 mm wells
4-5 ul of DNA Ladder for 4-6 mm wells