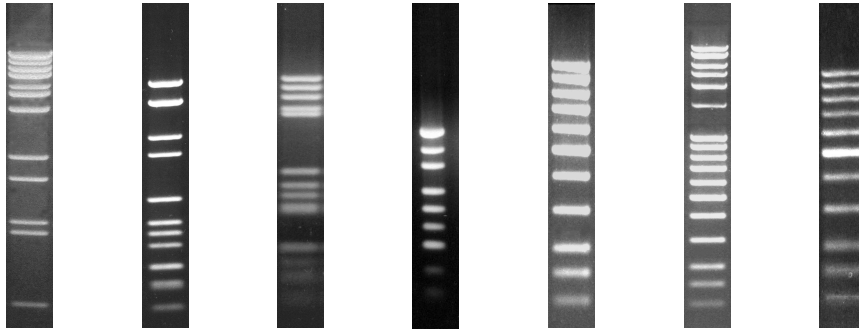


SERVA DNA Markers

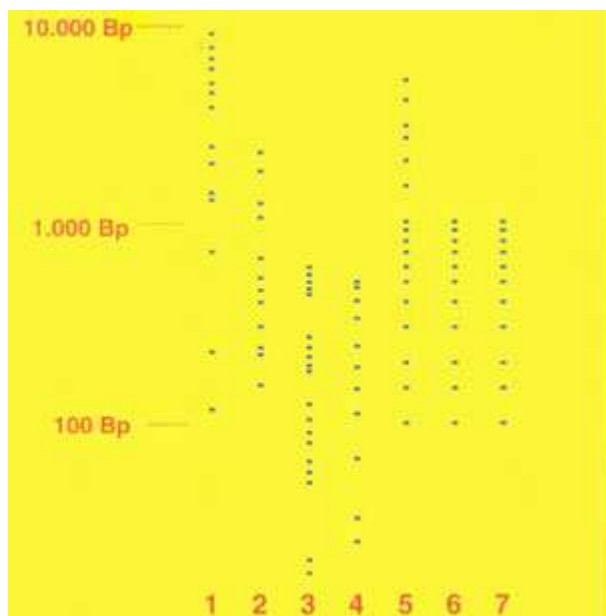
Seven different molecular weight DNA markers for your choice!



For size determination of DNA fragments in agaroses or DNA agar gels you need size markers of high quality under the respect of fragment size and purity.

Benefits of the SERVA DNA MW size markers:

- ▶ Growth of the plasmids in nuclease-deficient *E. coli* strains
- ▶ Digestion of the plasmid DNA with high quality restriction enzymes, resulting in extreme low background and high-quality fragment ends for labelling (e.g. fill-in, 5'-end label).
- ▶ Deproteinized DNA leads to highest reproducibility and stability of the DNA fragments after dissolving in water or (supplied) sample buffer.
- ▶ The lyophilized DNA fragments are stable for at least 3 years (if stored at -20 °C) and can be shipped at room temperature.
- ▶ 1 x 1 ml sample buffer for easy and fast resuspension of the DNA fragments is included. The dissolved DNA is stable for 1 - 2 years at -20 °C.



Overview of size fragment distribution of the single DNA markers (y = logarithmic):

- 1 = Lambda x BstEII
- 2 = pBR328 Mix
- 3 = pBR322 x HaeIII
- 4 = pUC19 x MspI
- 5 = 100 Bp Ladder extended
- 6 = 100 Bp Ladder equimolar
- 7 = 100 Bp Ladder equalized

Marker	DNA fragment sizes (in Bp)	Application	% Agarose % DNA Agar	Ordering Information
Lambda x BstEII	8454, 7242, 6369, 5687, 4822, 4324, 3675, 2323, 1929, 1371, 1264, 702, 224, 117 Bp	Analysis of large DNA fragments of genomic or plasmid DNA, separation distance approx. 60 - 80 mm	0.8 - 11.2 % 0.6 - 0.9 % 0.8 - 1.0 µg/lane	39301.01 2 x 50 µg *
pBR328 Mix	2176, 1766, 1230, 1033, 653, 517, 453, 394, 298, 234, 220, 154 Bp	Analysis of DNA fragments and PCR products between 2100 and 300 BP, separation distance approx. 35 - 80 mm	1.2 - 1.8 % 0.9 - 1.4 % 7 - 1.0 µg/lane	39302.01 50 µg *
pBR322 x Hae III	587, 540, 502, 458, 434, 267, 234, 213, 192, 184, 124, 123, 104, 89, 80, 64, 57, 51, 21, 18, 11, 8 Bp	Analysis of DNA fragments and PCR products between 500 and 50 Bp, separation distance approx. 60 - 80 mm	2.0 - 2.2 % 1.5 - 1.6 % 0.7 - 1.0 µg/lane	39303.01 50 µg *
pUC19 x MspI	501, 489, 404, 331, 242, 190, 147, 111, 110, 67, 34, 34, 26, 26, Bp	Analysis of DNA fragments and PCR products between 450 and 80 Bp, separation distance approx. 35 - 60 mm	2.0 - 2.2 % 1.5 - 1.6 % 0.7 - 1.0 µg/lane	39304.01 50 µg *
100 Bp Ladder extended	5000, 4000, 3000, 2500, 2000, 1500, 1000, 900, 800, 700, 600, 500, 400, 300, 200, 150, 100 Bp	Analysis of DNA fragments between 4000 and 200 Bp, separation distance approx. 70 - 100 mm, 60 % of the mass equimolar betw. 100 and 1000 Bp	1.0 - 1.6 % 0.8 - 1.3 % 0.8 - 1.0 µg/lane	39312.01 50 µg *
100 Bp Ladder equimolar	1000, 900, 800, 700, 600, 500, 400, 300, 200, 150, 100 Bp	Analysis of DNA fragments between 900 and 200 Bp, separation distance approx. 70 - 90 mm, equimolar distribution for easy quantification	1.5 - 2.0 % 1.2 - 1.5 % 0.7 - 1.0 µg/lane	39311.01 50 µg *
100 Bp Ladder equalized	1000, 900, 800, 700, 600, 500, 400, 300, 200, 150, 100 Bp	Analysis of DNA fragments between 900 and 200 Bp, separation distance approx. 45 - 90 mm, equal staining of bands	1.5 - 2.0 % 1.2 - 1.5 % 0.2 - 0.3 µg/lane	39313.01 20 µg *

*** = lyophilized, 1 ml of sample buffer for easy and fast resuspension will be included with each marker**