

Low DNA Ladder

100 – 1000 bp



Cat. No.: 733-2602

Cat. No.	Product	ID No.	Cap colour	Volume
733-2602	Low DNA Ladder	5401600	Black	1 x 0.5 ml

Store at -20 °C

Key Features

- Molecular range from 100 bp to 1000 bp
- Convenient ready-to-use formulation
- 100 lanes of 5 µl

General Description

Low DNA Ladder is a dsDNA ladder with bands from 100 bp to 1000 bp (figure 1).

The ladder is supplied in loading buffer, ready-to-use on agarose and polyacrylamide gels. It is suitable with TBE, TAE, SB and LB electrophoresis systems.

Suggestions for use of Low DNA Ladder

- **Important:** Mix and vortex ladder briefly before use. Do not heat the ladder.
- Load 5 µl of ladder per lane (for gel wells of ~5 – 10 mm width)
- Agarose gel electrophoresis: Prepare 1 – 2 % gel. The dye should migrate 60 – 70% the length of the gel.
- Polyacrylamide gel electrophoresis: Prepare 8% gel. The dye should migrate approx. 90% the length of the gel.
- Ethidium bromide (0.5 µg/ml) is the recommended gel stain.

Storage, Stability and Shipment

Low DNA ladder may be kept safely at room temperature for at least 3 months from date of shipment. Ladders are guaranteed for 12 months when stored at 4°C. Aliquot product if necessary to avoid repeated freezing and thawing cycles.

Shipped at ambient temperature or on dry ice. For long term storage, keep the Low DNA Ladder at -20 °C for up to 3 years.

Quality control

Agarose gel analysis shows that all bands are present at the expected location and band intensity.

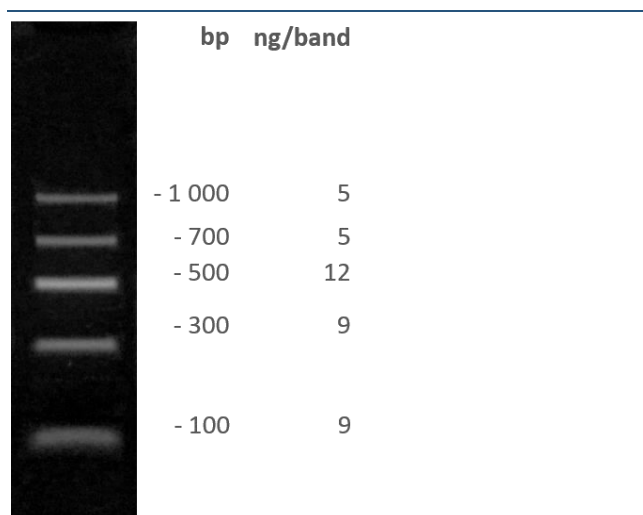


Figure 1: Low DNA Ladder. 5 µl Low DNA Ladder was loaded on a 1.6 % agarose in 1x TAE and stained with ethidium bromide. Estimated concentrations of the DNA bands are indicated.

Related Products

Description	Cat. No.
VWR Taq DNA Polymerase	
VWR Taq DNA Polymerase (500 units) with 10x Key Buffer with 10x Extra Buffer	733-1301
VWR Taq DNA Polymerase (500 units) with 10x Extra Buffer (Mg ²⁺ -free and Triton-free)	733-1304
VWR Taq DNA Polymerase (1000 units) with 10x Key Buffer (Tween-free) with 10x Extra Buffer (Triton-free)	733-1307
VWR Taq DNA Polymerase (500 units) with 10x Key Buffer (Mg ²⁺ free)	733-1311
VWR Red Taq DNA Polymerase (2500 units) with 10x Key Buffer with 10x Extra Buffer	733-1323
VWR Glycerol Free Taq DNA Polymerase (1000 units) with 10x Key Buffer with 10x Extra Buffer	733-1817
VWR Taq DNA Polymerase Master Mix*	
VWR Taq Plus 2x Master Mix, 1.5 mM MgCl ₂ final conc. (2500 reactions)	733-2599
VWR Taq DNA Pol. 1.1x Master Mix, 1.5 mM MgCl ₂ final conc. (2500 reactions)	733-1314
VWR Taq DNA Pol. 2x Master Mix, 1.5 mM MgCl ₂ final conc. (2500 reactions)	733-1316
VWR Red Taq DNA Pol. 1.1x Master Mix, 1.5 mM MgCl ₂ final conc. (2500 reactions)	733-1318
VWR Red Taq DNA Pol. 2x Master Mix, 1.5 mM MgCl ₂ final conc. (2500 reactions)	733-1320
VWR TEMPase DNA Polymerase	
VWR TEMPase Hot Start DNA Polymerase (500 units) with 10x Key Buffer with 10x Combination Buffer	733-1331
VWR Glycerol Free TEMPase DNA Polymerase (500 units) with 10x Key Buffer	733-2555

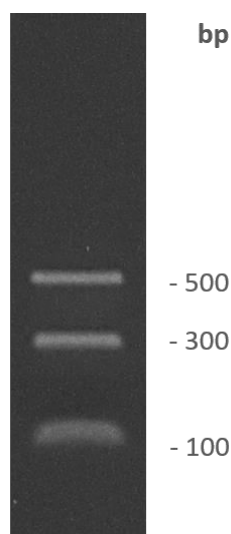
VWR TEMPase Hot Start Master Mix**	
VWR TEMPase Hot Start 2x Master Mix K, 1.5 mM MgCl ₂ final conc. (2500 reactions)	733-2582
VWR Blue TEMPase Hot Start 2x Master Mix K, 1.5 mM MgCl ₂ final conc. (2500 reactions)	733-2585
VWR Multiplex Master Mix	
VWR Multiplex 2x Master Mix, (2500 reactions)	733-2569
VWR High Fidelity DNA Polymerase	
VWR AccuPOL DNA Polymerase (250 units) with 10x Key Buffer	733-1324
VWR AccuPOL DNA Polymerase (250 units) with 10x Key Buffer (Mg ²⁺ free and Tween free)	733-1328
VWR PCR accessories	
Betaine Enhancer Solution (5M), 5 ml (500 reactions)	733-1361
dNTP Mix, 40 mM (10 mM of each dATP, dCTP, dGTP & dTTP) (40 µmol, 2x 500 µl)	733-1363
dNTP Set, 100 mM of each dATP, dCTP, dGTP & dTTP (4x 25 µmol, 4x 250 µl)	733-1364
VWR PCR grade water (6 x 5 ml)	733-2573
VWR Loading Buffer Red (5 x 1 ml) – available in 4 different colors	733-2574

*Also available with 2 mM MgCl₂

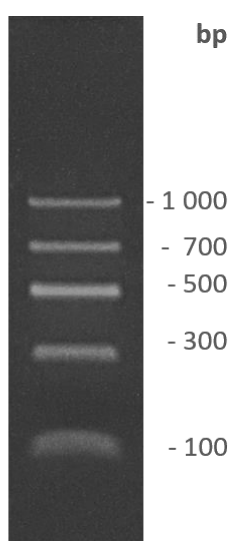
**Also available as 2 x Master Mix C based on Combination Buffer

Tween® 20 is a registered trademark of ICI Americas, Inc.

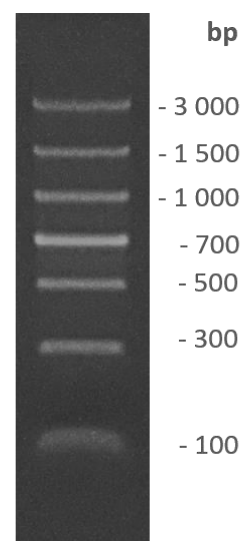
The VWR DNA Ladders



Mini DNA Ladder



Low DNA Ladder



PCR Ladder