

PCR DNA Ladder

Range: 100 bp – 3000 bp

MADE IN DENMARK

Cat. No.: A610341

250 lanes of 2 µl



A610341

-	PCR DNA Ladder
ID No.	5401300
Cap colour	Black
Content	1 x 0.5 ml

Features and General Description

PCR DNA Ladder is a broad range dsDNA ladder with bands from 100 bp to 3000 bp (figure 1). The ladder can be used to quantitate the amount of DNA in a sample since the mass of DNA in each band in the ladder has been calibrated to 10 ng DNA except the 1000 bp band, which contains 30 ng DNA. The 1000 bp band is thus more intense and an easy to identify reference point. The 100 bp band may appear faint due to diffusion during electrophoresis.

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 PCR DNA Ladder

- **Important:** Mix ladder briefly before use. Do not heat the ladder.
- Load 1 µl to 5 µl of ladder per lane (for gel wells of ~5 – 10 mm width)
- Agarose gel electrophoresis: Prepare 1% 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

PCR 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. For long term storage, keep the loading buffer 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.

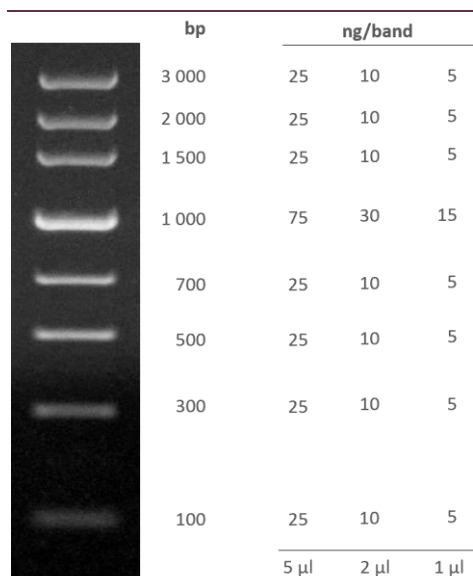


Figure 1: PCR DNA Ladder. 2 µl PCR DNA Ladder was loaded on a 1% agarose in 1x TAE and stained with ethidium bromide.

Related Products

DNA Ladders	Cat. No.
High Range DNA Ladder: 200 -12 000 bp. 250 lanes	A610141
Low Range DNA Ladder: 100 -1000 bp. 250 lanes	A610241
Iqon Mini DNA Ladder: 100 -500 bp. 100 lanes	A610441
Iqon Low DNA Ladder: 100 -1000 bp. 100 lanes	A610541
Iqon PCR Ladder: 100 -3000 bp. 100 lanes	A610641

Loading Buffers	Cat. No.
5x Loading Buffer Red, 5 x 1 ml	A608104
5x Loading Buffer Blue, 5 x 1 ml	A608204
5x Loading Buffer Orange, 5 x 1 ml	A608304
5x Loading Buffer Cyan, 5 x 1 ml	A608404

Ultrapure dNTPs*	Cat. No.
dNTP Mix 40 mM (2 x 500 µl): 10 mM each dA, dC, dG, dT	A502004
dNTP Set, 100 mM each: 250 µl of each dA, dC, dG and dT	A511104

*Other concentrations and Single dNTPs are available.

PCR Grade Water	Cat. No.
6 x 5 ml	A360056

AQ90 High Fidelity DNA Polymerase 2 U/µl*	Cat. No.
With 10x AQ90 Buffer – 500 U	A457403

* Available in different size ranges.

Taq Polymerase (500 units) *	Cat. No.
Taq DNA Polymerase 5 U/µl	A110003
• with 10x Ammonium Buffer	A111103

Hot Start Polymerase (500 units) *	Cat. No.
TEMPase Hot Start DNA Polymerase, 5 U/µl	A220003
• with 10x Ammonium Buffer	A221103

*Available in kits including one or two buffers (Ammonium Buffer, Standard Buffer or Combination Buffer). Available in different size ranges.

AQ90 High Fidelity DNA Polymerase 2x Master Mix*	Cat. No.
100 reactions	A470701

* Available in different size ranges.

Taq Master Mixes (500 x 50 µl reactions) *	Cat. No.
2x Master Mix, 1.5 mM MgCl ₂ final concentration	A140303
2x Master Mix RED, 1.5 mM MgCl ₂ final concentration	A180303

TEMPase Hot Start Master Mixes (500 x 50 µl reactions) *	Cat. No.
2x Master Mix A**, 1.5 mM MgCl ₂ final concentration	A230303
2x Master Mix A**BLUE, 1.5 mM MgCl ₂ final concentration	A290403

*Master mixes available also in 1.1x variants as well as 2 mM MgCl₂ variants, **Mix A is Ammonium Buffer based, also available as Mix C based on Combination Buffer. Available in different size ranges

Real-time PCR Master Mixes (400 x 25 µl reactions)	Cat. No.
RealQ Plus 2x Master Mix for probe,	
• without ROX™	A313402
• with low ROX™	A314402
• with high ROX™	A315402
RealQ Plus 2x Master Mix Green	
• without ROX™	A323402
• with low ROX™	A324402
• with high ROX™	A325402

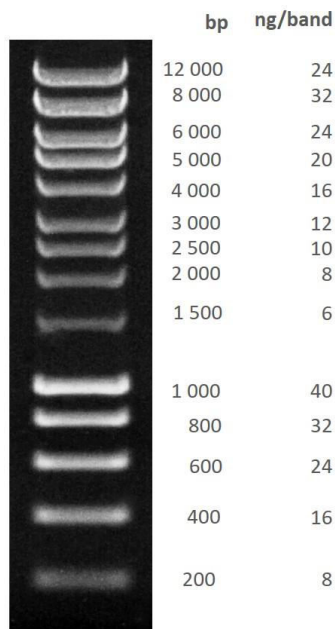
For Research Use Only. Not for use in diagnostics procedures.

Other product sizes, combinations and customized solutions are available. Please look at www.ampliqon.com or ask for our complete product list for PCR Enzymes. For customized solutions please contact us.

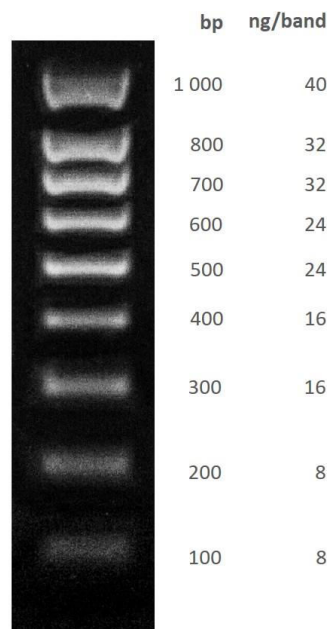
Made in Denmark

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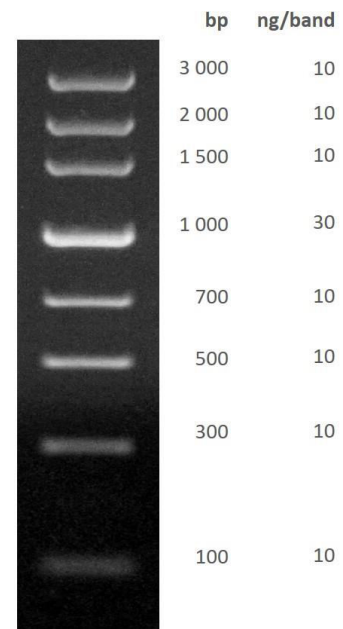
The Ampliqon DNA Ladders



High Range DNA Ladder



Low Range DNA Ladder



PCR DNA Ladder