

User Guide

DirectLoad™ Plus
50 bp DNA Ladder

DPLUS-50

500 µL/vial

Storage

-20 °C for up to 24 months or 4 °C for up to six months.

Description

PCR products and double-stranded DNA digested with appropriate restriction enzymes equilibrated to 10 mM Tris-HCl (pH 8.0) and 10mM EDTA after phenol extraction to yield 17 fragments, suitable for use as molecular weight standards for agarose gel electrophoresis. The DNA includes fragments ranging from 50-1,500 base pairs. The 200, 500 and 1200 base pair bands have increased intensity to serve as reference points.

Note: The approximate mass of DNA in each band is supplied for estimating the mass of DNA in comparably intense samples of similar size.

Range 50-1,500 bp

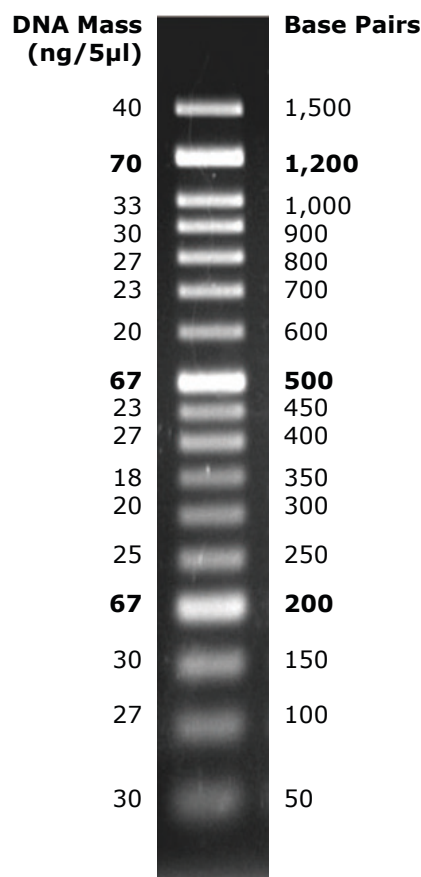
Number of bands 17

Concentration 112 µg/mL

Tracking dye Orange G

This product is only suitable for rough estimation of nucleic acid molecular weight.

Suggested Load: 5 µL/well



2% TAE agarose gel

Product Ordering

Purchase online at [SigmaAldrich.com](https://www.sigmaaldrich.com).

Description	Qty	Catalogue Number
DirectLoad™ Plus 50 bp DNA Ladder	500 µL vial	DPLUS-50
DirectLoad™ Plus 100 bp DNA Ladder	500 µL vial	DPLUS-100
DirectLoad™ Plus 100 bp High DNA Ladder	500 µL vial	DPLUS-100H
DirectLoad™ Plus 100 bp High DNA Ladder with fluorescent DNA stains	600 µL vial	DPLUS-100HS
DirectLoad™ Plus 1 Kb DNA Ladder	500 µL vial	DPLUS-1K
DirectLoad™ Plus 1 Kb DNA Ladder with fluorescent DNA stains	600 µL vial	DPLUS-1KS
BioReagent Ethidium Bromide Solution	10 mL	E1510-10ML
BioReagent Agarose, low electroendosmosis (EEO)	50 g	A9539-50G
pHast Pack™ Tris-Acetate EDTA Buffer, pH 8.3	20 pouches	PPB008-20PAK
pHast Pack™ Tris-Borate EDTA Buffer, pH 8.3	20 pouches	PPB009-20PAK
pHast Pack™ Tris-Borate EDTA w/ 1% agarose	20 pouches	PPB012-20PAK
pHast Pack™ Tris-Acetate EDTA w/ 1% agarose	20 pouches	PPB013-20PAK
GelRed® Nucleic Acid Stain 3X Water	4 L	SCT121
GelRed® Nucleic Acid Stain 10000X DMSO	0.5 mL	SCT122
GelRed® Nucleic Acid Stain 10000X Water	0.5 mL	SCT123
GelGreen® Nucleic Acid Stain 10000X DMSO	0.5 mL	SCT124
GelGreen® Nucleic Acid Stain 10000X Water	0.5 mL	SCT125
SYBR® Green I Nucleic Acid Gel Stain	0.5 mL 1 mL	S9430-.5ML S9430-1ML

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Precautions and Disclaimer

This product is for research use only. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

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