

# **Technical Data Sheet**

Prestained Protein Ladder (10 – 180 kDa) for molecular biology Order number: 1288

Protein Ladder (10-180 kDa), prestained is a threecolor protein standard for SDS-PAGE and Western Blotting. It consists of 10 chromophore-coupled proteins (0.2 - 0.4 mg/ml of each protein) covering a range of molecular weights from 10 to 180 kDa (Trisglycine buffer). Eight proteins are covalently coupled with a blue chromophore while two proteins are highlighted in green (band at 25 kDa) and red color (band at 75 kDa). The Protein Ladder (10-180 kDa), prestained is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximating the size of proteins. The ladder is supplied in gel loading buffer (20

	kDa	_	kDa	_	kDa
	~180	-	~170	-	~165
	~135		~130		~125
	~100		~93		~93
	~75		~70		~72
-	~63		~53	_	~57
-	~48	_	~41		~42
-	~35	_	~30	_	~31
-	~25	-	~22	-	~24
-	~17	_	~14	_	~15
-	~11	_	~9		~8
-	~11	-		-	

mM tris-phosphate pH 7.5, 2 % SDS, 0.2 mM dithiothreitol, 3.6 M urea, and 15 % (v/v) glycerol) and is *ready-to-use*.

## Application

Recommendations for loading:

15-well mini-gel: $3 \mu$ l per well for clear visualization during electrophoresis10-well mini-gel: $3 \mu$ l per well for clear visualization during electrophoresisWestern transfer: $2 - 3 \mu$ l per wellApply more for thicker (> 1.5 mm) or larger gels.

Do not heat/dilute/add reducing agent before loading.

#### Storage

Protein Ladder (10-180 kDa), prestained is stable for up to 3 months at 4°C. For long term storage, store at -20°C.



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# Performance

% of migration	Tris Glycine Gel							4-12% Bis Tris Gel		3-8% Tris Acetate
• • •	6 %	8 %	10 %	12 %	14 %	16 %	4-20 %	MOPS	MES	TA
0 % — 10 % — 20 % — 30 % — 50 % — 60 % — 70 % — 80 % — 90 % — 100 % —	180 135 100 75 63	180 135 100 75 63 48 35	180 135 100 75 63 48 35 25 20 17	180 135 63 48 35 25 20 17	180 135 100 75 100 63 48 35 25 20 17	135 180 75 100 48 <sup>3</sup> 35 25 20 17	180 135 100 75 63 48 35 25 20 17	170 130 93 70 53 41 30 22 18 14	165 125 93 72 57 42 31 24 18 15	165 120 100 70 55 45 30 27 18 15

Migration patterns of Protein Ladder (10-180 kDa), prestained at different electrophoresis conditions:

### **Related products**

- 7777 WesternFroxx all-in-one Protein Ladder (15 200 kDa) for immunodetection
- 1052 Protein Ladder (6.5 212 kDa), unstained for molecular biology
- 1123 Protein Ladder (10 245 kDa), prestained for molecular biology
- 5560 ECL Xtrasensitivity Kit for immunodetection
- 1550 BSA blocking solution for immunodetection
- 1080 CleanBlot Background Minimizer for immunodetection
- 1095 Peptide blocking solution (BSA-free) for immunodetection
- 1080 Casein high-end blocking solution for immunodetection
- 1102 Acrylamide Xtra solution 30 % Mix 37.5:1 for electrophoresis
- 1248 Acrylamide Xtra solution 40 % Mix 37.5:1 for electrophoresis
- 1912 Coomassie® brilliant blue R-250 (C.I. 42660) for biochemistry
- 1277 SDS Xtrapure for biochemistry
- 8027 TEMED for biochemistry
- 1610 Ammonium persulfate for molecular biology
- 1125 Tris Xtrapure for biochemistry
- 1275 Glycine for biochemistry

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