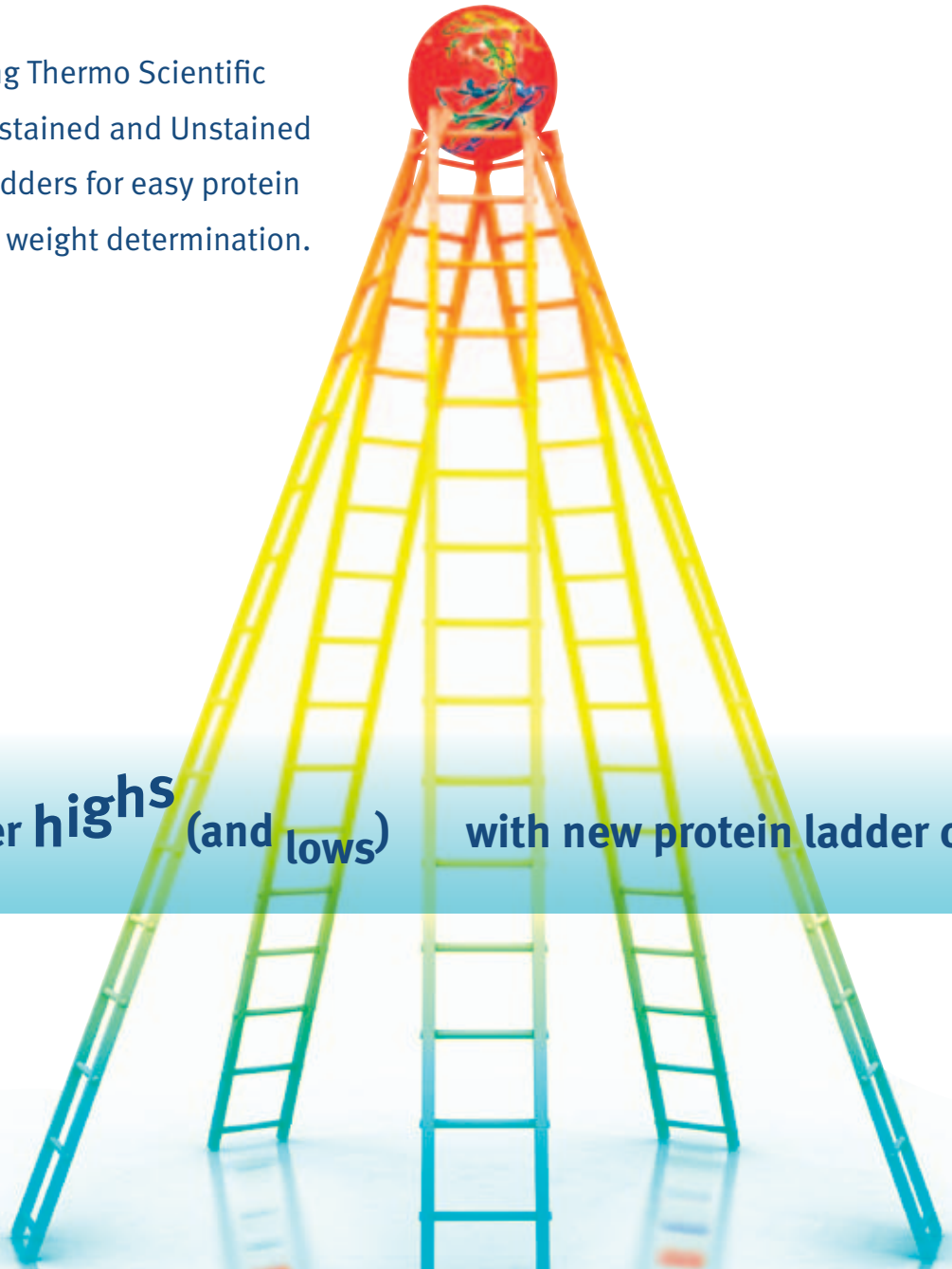
Fermentas now sold as Thermo Scientific

Introducing Thermo Scientific Pierce Prestained and Unstained Protein Ladders for easy protein molecular weight determination.



Reach greater highs (and lows) with new protein ladder choices.

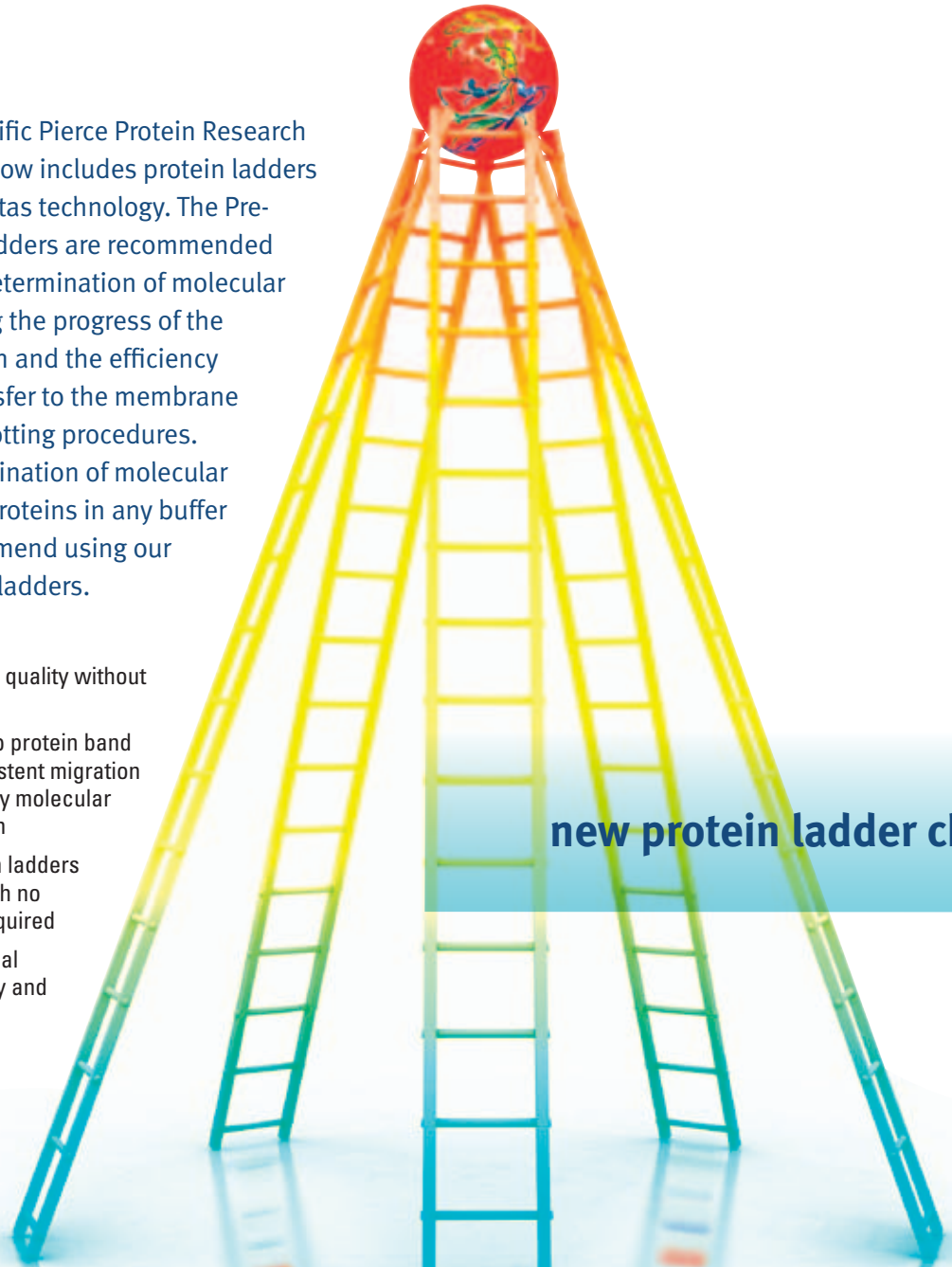
Thermo SCIENTIFIC

Fermentas now sold as Thermo Scientific

The Thermo Scientific Pierce Protein Research Product Portfolio now includes protein ladders made with Fermentas technology. The Pre-stained Protein Ladders are recommended for approximate determination of molecular weight, monitoring the progress of the electrophoresis run and the efficiency of the protein transfer to the membrane during Western blotting procedures. For precise determination of molecular weights of target proteins in any buffer system, we recommend using our unstained protein ladders.

Highlights:

- **Cost effective** – high quality without the high price
- **Performance** – sharp protein band resolution and consistent migration patterns provide easy molecular weight determination
- **Convenient** – protein ladders are ready to load with no heating or boiling required
- **Reliable** – exceptional lot-to-lot consistency and reproducibility



new protein ladder choices

Thermo SCIENTIFIC

Reach new heights in gel electrophoresis

Ordering Information

Product #	Description	Pkg. Size
26610	Pierce® Unstained Protein MW Marker	2 x 1mL
26612	Pierce Prestained Protein MW Marker	500µL
26614	PageRuler™ Unstained Protein Ladder	2 x 250µL
26616	PageRuler Prestained Protein Ladder	2 x 250µL
26617	PageRuler Prestained Protein Ladder	10 x 250µL
26619	PageRuler Plus Prestained Protein Ladder	2 x 250µL
26620	PageRuler Plus Prestained Protein Ladder	10 x 250µL
26634	Spectra® Multicolor Broad Range Protein Ladder	2 x 250µL
26623	Spectra Multicolor Broad Range Protein Ladder	10 x 250µL
26625	Spectra Multicolor High Range Protein Ladder	2 x 250µL
26628	Spectra Multicolor Low Range Protein Ladder	250µL
26630	PageRuler Unstained Broad Range Protein Ladder	2 x 250µL
26632	PageRuler Unstained Low Range Protein Ladder	2 x 250µL
26637	PageRuler Unstained High Range Protein Ladder	2 x 250µL

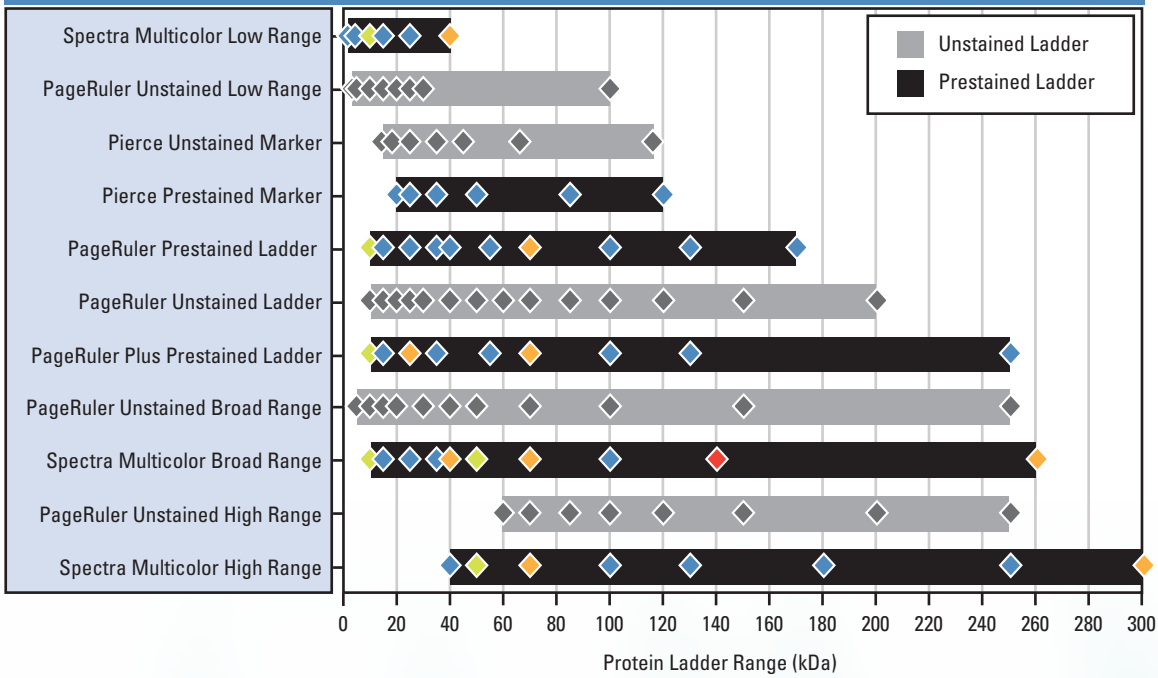
Specialty Ladders

Product #	Description	Pkg. Size
26635	PageRuler Prestained NIR Protein Ladder	2 x 250µL
84785	SuperSignal® Molecular Weight Protein Ladder	250µL
84786	SuperSignal Enhanced Molecular Weight Protein Ladder	250µL

Visit *www.thermoscientific.com/protein-custom* to request a quote, or contact our Bulk and Custom Sales department at **LVC.rockford@thermofisher.com.**

www.thermoscientific.com/pierce

Selection Table for Thermo Scientific Pierce MW Markers and Protein Ladders



		Thermo Scientific Pierce Protein Ladders						Application						
								SDS PAGE					Western blotting	
		Product Name	Product #	Former Fermentas Part #	# Proteins	MW Range	Reference Bands	Protein MW determination	Protein band visualization	Monitoring electrophoresis run	Coomassie/silver/ fluorescent staining	NIR detection	Monitoring protein transfer	Chemiluminescent band visualization
Colorimetric	Unstained	PageRuler Unstained Broad Range Protein Ladder	26630	SM1881	11	5-250kDa	20, 50 and 100kDa	Best	—	—	Best	—	—	Good†
		PageRuler Unstained Protein Ladder	26614	SM0661	14	10-200kDa	50kDa	Good	—	—	Good	—	—	Good†
		PageRuler Unstained Low Range Protein Ladder	26632	SM1891	8	3.4-100kDa	25kDa	Best	—	—	Best	—	—	Good†
		PageRuler Unstained High Range Protein Ladder	26637	—	8	60-250kDa	150kDa	Best	—	—	Best	—	—	Good†
		Pierce Unstained Protein Molecular Weight Marker	26610	SM0431	7	14.4-116kDa	—	Good	—	—	Good	—	—	—
	Prestained	PageRuler Prestained Protein Ladder	26616, 26617	SM0671, SM0672	10	10-170kDa	Green 10kDa; Orange 70kDa	Good	Good	Good	—	Good‡	Good	—
		PageRuler Plus Prestained Protein Ladder	26619, 26620	SM1811, SM1812	9	10-250kDa	Green 10kDa; Orange 25 and 70kDa	Good	Good	Good	—	Good‡	Good	—
		Spectra Multicolor Broad Range Protein Ladder	26634, 26623	SM1841, SM1842	10	10-260kDa	Green 10 and 50kDa; Orange 40, 70 and 260kDa; Pink 140kDa	Good	Best	Best	—	Good‡	Best	—
		Spectra Multicolor Low Range Protein Ladder	26628	SM1861	6	1.7-40kDa	Green 10kDa; Orange 40kDa	Good	Best	Best	—	Good‡	Best	—
		Spectra Multicolor High Range Protein Ladder	26625	SM1851	8	40-300kDa	Green 50kDa; Orange 70 and 300kDa	Good	Best	Best	—	Good‡	Best	—
		Pierce Prestained Protein Molecular Weight Marker	26612	SM0441	6	20-120kDa	—	Good	Good	Good	—	Good	Good	—
Chemi. Lum.		SuperSignal Molecular Weight Protein Ladder	84785, 84786	—	8	20-150kDa	—	Good	—	—	Good	—	Good	Best
NIR		PageRuler Prestained NIR Protein Ladder	26635	—	10	11-250kDa	55kDa	Good	Good	Good	—	Best	Good	—

† with Strep-Tactin® HRP or AP Conjugates

‡ Blue and green prestained bands fluoresce in NIR region

Reference Guide: Migration Patterns in Different Electrophoresis Conditions

Thermo SCIENTIFIC

Migration Patterns of PageRuler Prestained Protein Ladder

Thermo Scientific PageRuler Prestained Protein Ladder

Gel type	Tris-Glycine							Tris-Acetate††		Bis-Tris††					
Gel concentration	4-20%	8-16%	10-20%	8%	10%	12%	15%	3-8%	7%	4-12%		10%		12%	
Running buffer	Tris-Glycine							Tris-Acetate		MOPS	MES	MOPS	MES	MOPS	MES
Apparent Molecular Sizes (kDa)															
% length of gel 10	170 130 100 70 55 40 35 25 15 10	170 130 100 70 55 40 35 25 15 10	170 130 100 70 55 40 35 25 15 10	170 130 100 70 55 40 35 25 15	170 130 100 70 55 40 35 25 15 10	170 130 100 70 55 40 35 25 15 10	170 130 100 70 55 40 35 25 15 10	150 120 85 65 50 40 30 25	150 120 85 65 50 40 30 25	140 115 80 65 50 40 30 25 15 10	140 115 80 65 50 40 30 25 15 10	140 115 80 65 50 40 30 25 15	140 115 80 65 50 40 30 25 15	140 115 80 65 50 40 30 25 15	140 115 80 70 50 40 30 25 15 10

Migration Patterns of PageRuler Plus Prestained Protein Ladder

Thermo Scientific PageRuler Plus Prestained Protein Ladder

Gel type	Tris-Glycine							Tris-Acetate††		Bis-Tris††					
Gel concentration	4-20%	8-16%	10-20%	8%	10%	12%	15%	3-8%	7%	4-12%		10%		12%	
Running buffer	Tris-Glycine							Tris-Acetate		MOPS	MES	MOPS	MES	MOPS	MES
Apparent Molecular Sizes (kDa)															
% length of gel 10	250 130 100 70 55 35 25 15 10	250 130 100 70 55 35 25 15 10	250 130 100 70 55 35 25 15 10	250 130 100 70 55 35 25 15	250 130 100 70 55 35 25 15	250 130 100 70 55 35 25 15 10	250 130 100 70 55 35 25 15 10	205 120 85 65 50 30 25	205 120 85 65 50 30 25	185 115 80 65 50 30 25 15 10	190 115 80 70 50 30 25 15 10	185 115 80 65 50 30 25	190 115 80 70 50 30 25 15 10	185 115 80 65 50 30 25 15	190 115 80 70 50 30 25 15 10

Migration Patterns of Spectra Multicolor Broad Range Protein Ladder

Thermo Scientific Spectra Multicolor Broad Range Protein Ladder

Gel type	Tris-Glycine							Tris-Acetate††		Bis-Tris††					
Gel concentration	4-20%	8-16%	10-20%	8%	10%	12%	15%	3-8%	7%	4-12%		10%		12%	
Running buffer	Tris-Glycine							Tris-Acetate		MOPS	MES	MOPS	MES	MOPS	MES
Apparent Molecular Sizes (kDa)															
% length of gel 10	260 140 100 70 50 40 35 25 15 10	260 140 100 70 50 40 35 25 15 10	260 140 100 70 50 40 35 25 15 10	260 140 100 70 50 40 35 25 15	260 140 100 70 50 40 35 25 15	260 140 100 70 50 40 35 25 15 10	260 140 100 70 50 40 35 25 15 10	225 120 85 65 50 40 30 25	225 120 85 65 50 40 30 25	225 115 80 65 50 35 25 15 10	235 120 80 70 50 40 30 25 15 10	225 115 80 65 50 35 30 25 15	235 120 80 70 50 40 30 25 15 10	225 115 80 65 50 35 30 25 15	235 120 80 70 50 40 30 25 15 10

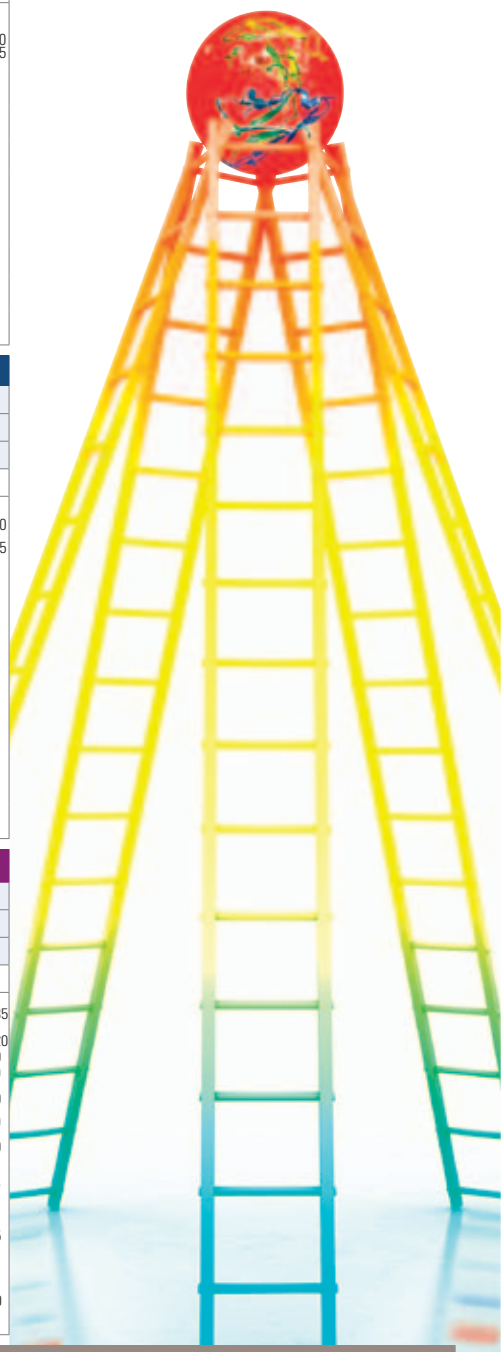
Migration Patterns of Spectra Multicolor High Range and Low Range Protein Ladder

Thermo Scientific Spectra Multicolor High Range Protein Ladder

Gel type	Tris-Glycine						Tris-Acetate††		Bis-Tris††
Gel concentration	4-12%	4%	6%	8%	10%	4-20%	3-8%	7%	4-12%
Running buffer	Tris-Glycine						Tris-Acetate		MOPS
Apparent Molecular Sizes (kDa)									
% length of gel 10	300 250 180 130 100 70 50 40	300 250 180 130 100 70 50 40	300 250 180 130 100 70 50 40	300 250 180 130 100 70 50 40	300 250 180 130 100 70 50 40	300 250 180 130 100 70 50 40	270 205 150 120 85 65 50 40	270 205 150 120 85 65 50 40	270 185 140 115 80 65 50 40

Thermo Scientific Spectra Multicolor Low Range Protein Ladder

Gel type	Tris-Tricine										
Gel concentration	4-20%	10-20%	14%	16%	18%	14-SP %	16-SP %	18-SP %	10-20%‡‡	16%‡‡	10-20%†††
Running buffer	Tris-Tricine SDS										
Apparent Molecular Weights (kDa)											
% length of gel 10	40 25 15 10 5 2	40 25 15 10 5 2	40 25 15 10 5 2	40 25 15 10 5	40 25 15 10 5 2	40 25 15 10 5 2	40 25 15 10 5	40 25 15 10 5 2	40 25 15 10 5	40 25 15 10 5 2	40 25 15 10 5 2



Note: The apparent molecular size of each protein (kDa) has been determined by calibration against an unstained protein ladder in each electrophoresis condition.

†† – Migration patterns were determined using respective NuPAGE® precast gels.

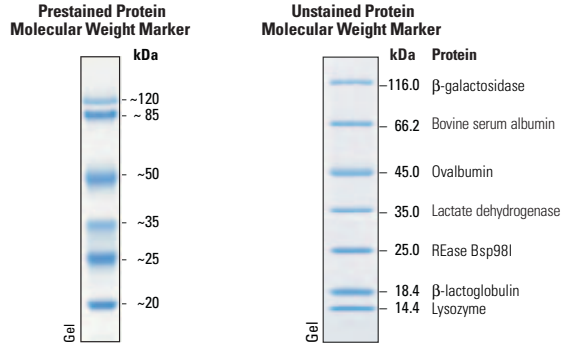
SP – small peptide SDS-polyacrylamide gel with higher degree of crosslinking (c=5% instead of usual ~3%).

‡‡ – migration patterns were determined using respective Novex® precast gels.

††† – migration patterns were determined using respective Ready Gel® precast gel.

Thermo Scientific Pierce Protein Molecular Weight Marker

The Thermo Scientific Pierce Prestained Protein Molecular Weight Marker is designed to monitor protein migration during SDS-polyacrylamide gel electrophoresis and monitor protein transfer onto membranes. Pierce Unstained Protein Molecular Weight Marker produces sharp bands on SDS-polyacrylamide gel following staining with Coomassie-based or silver stains and is recommended for accurate sizing of proteins on SDS PAGE and Western blots.

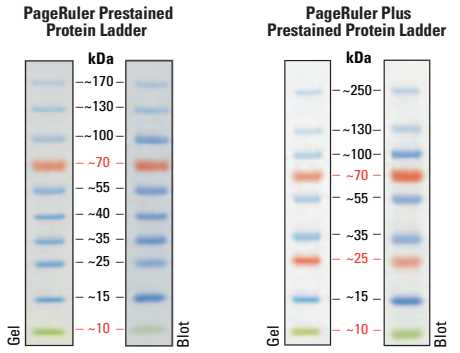


8-16% Tris-glycine SDS-PAGE
Product # 26612

8-16% Tris-glycine SDS-PAGE
Product # 26610

Thermo Scientific PageRuler Prestained Protein Ladders

The Thermo Scientific PageRuler and PageRuler Plus Prestained Protein Ladders are comprised of highly purified recombinant proteins bound to three different chromophores for easy protein molecular weight determination. The green and orange reference bands in the PageRuler Protein Ladders provide easy orientation of the protein bands.

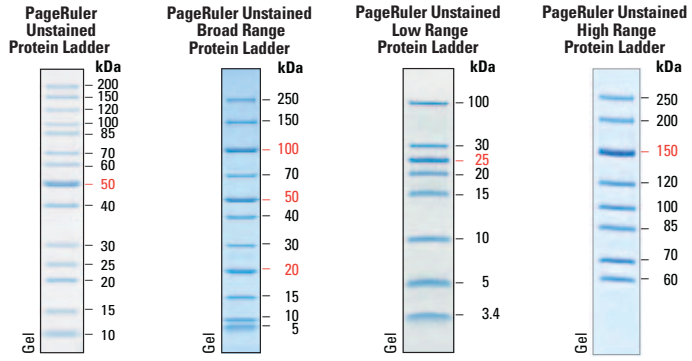


4-20% Tris-glycine SDS-PAGE
Product #s 26616, 26617

4-20% Tris-glycine SDS-PAGE
Product #s 26619, 26620

Thermo Scientific PageRuler Unstained Protein Ladders

Thermo Scientific PageRuler Unstained Protein Ladders are mixtures of recombinant, highly purified proteins designed for accurate sizing of proteins by SDS-PAGE. The ladders resolve into clearly identifiable sharp bands when analyzed by SDS-PAGE and stained with Coomassie Blue or silver stain. Each ladder contains protein bands of greater intensity that serve as reference bands. Proteins can be detected on Western blots by staining with Ponceau S, or Coomassie Blue (except for 3.4kDa and 5kDa polypeptides) or by using Strep-Tactin conjugates.



8-16% Tris-glycine SDS-PAGE
Product # 26614

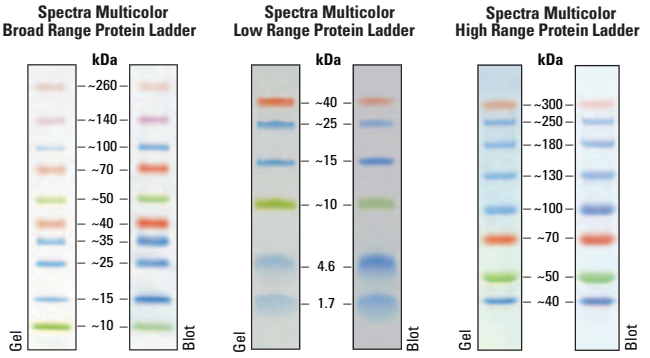
4-20% Tris-glycine SDS-PAGE
Product # 26630

18% SP Tris-tricine SDS-PAGE
Product # 26632

4-20% Tris-glycine SDS-PAGE
Product # 26637

Thermo Scientific Spectra Multicolor Protein Ladders

Four different chromophores bound to proteins in Thermo Scientific Spectra Multicolor Broad Range Protein Ladders produce a brightly colored ladder with an easy-to-remember pattern. The Spectra Multicolor High Range and Low Range Protein Ladders are designed for large and small protein analysis, respectively.



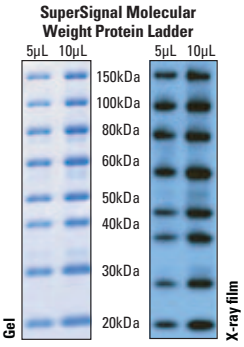
4-20% Tris-glycine SDS-PAGE
Product #s 26623, 26634

18% SP Tris-tricine SDS-PAGE
SP - Small Peptide
SDS - polyacrylamide gel
with higher crosslinking, C=5%
Product # 26628

4-12% Tris-glycine SDS-PAGE
Product # 26625

Thermo Scientific SuperSignal Molecular Weight Protein Ladders

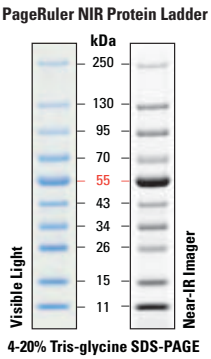
Thermo Scientific SuperSignal Molecular Weight Protein Ladders contain a ready-to-use stabilized mixture of eight recombinant proteins ranging in size from 20 to 150kDa. These recombinant proteins bind antibodies used in the Western blot through an IgG binding site. The protein markers can then be visualized either using appropriate substrates for enzyme-labeled antibodies or via fluorescent dye-labeled antibodies. Use SuperSignal Enhanced Molecular Weight Protein Ladders with mouse monoclonals.



4-12% Bis-Tris 4-20% Tris-Glycine
Product #s 84785, 84786

Thermo Scientific PageRuler Prestained NIR Protein Ladder

The PageRuler Prestained NIR Protein Ladder is a mixture of 10 proteins (11 to 250kDa) that are blue-stained and fluor-labeled for near-IR fluorescent visualization and protein sizing. The protein MW markers in this ladder resolve into sharp bands when analyzed by SDS-PAGE and are labeled with a fluorescent dye for visualization with instruments equipped with near-infrared (NIR) fluorescence detection. The bands are also directly visible because the proteins are prestained blue.



4-20% Tris-glycine SDS-PAGE
Product # 26635

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1602395 02/12 Printed in the U.S.