Prestained Protein Ladder

Summary

Prestained Protein Ladder is a prestained mixture of ten recombinant proteins ranging from 10 kDa to 180 kDa. Three different chromophores are bound to the proteins, producing a brightly colored ladder. The protein ladder is conveniently packaged and ready to use with no heating, diluting or additional reducing agent necessary. Lot-to-lot variation of the apparent molecular weight of prestained proteins is ~5 %.

Storage

Store at -20 ℃.

Specification

Components	NO	Size
Prestained Protein Ladder 10 kDa -- 180 kDa	EGM001S	250 μL
	EGM001S-5	5× 250 μL
	EGM001S-10	10× 250 μL

Recommendations for Loading

1. Thaw the ladder at room temperature for a few minutes to dissolve precipitated solids. Do not boil!
2. Mix gently, but thoroughly, to ensure the solution is homogeneous.
3. Load the following volumes of the ladder on an SDS-polyacrylamide gel:
   - 5 μL per well for mini gel,
   - 10 μL per well for large gel.

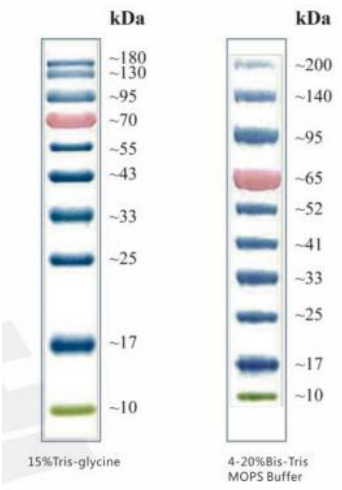
   Use the same volumes for Western blotting.

   The loading volumes listed above are recommended for gels with a thickness of 0.75-1.0 mm. The loading volume should be doubled for 1.5 mm thick gels.

Important Notes

1. Prestained proteins can have different mobilities in various SDS-PAGE-buffer systems. However, they are suitable for approximate molecular weight determination when calibrated against unstained standards in the same system. See the table provided for migration patterns in different electrophoresis conditions.
2. In low-percentage gels (< 10 %), the low-molecular weight proteins in the ladder may migrate with the dye front. PageRuler Prestained Protein Ladder can be used in Western blotting with all common membranes: PVDF, nylon and nitrocellulose.
3. Longer transfer times or higher transfer voltages may be required for Western blotting of large (>100 kDa) proteins.

PageRuler Prestained Protein Ladder



Note:

The apparement molecular weight of each protein (KDa) has been determined by calibration against an unstained protein ladder in each electrophoresis condition. Supplement data should be considered for more accurate adjustment.

Migration Pattems of PageRuler Prestained Protein Ladder

☐ 1NGM001 ☐ 15%SDS-PAGE ☐ 4%~20%

Gel type	Tris-Glycine						Bis-Tris					Bis-Tris	
Gel con-centration	6%	8%	10%	12.5%	15%	B4-20%	G4-12%	G4-12%	G8-16%	G4-20%	G10%	T4-12%	T4-12%
Running buffer	Tris-Glycine						MES	MOPS				MES	MOPS
%length of gel	Apparent Molecular Weights, kDa												
10	180	180	180 130	180 130 95 76	180 130 95 79	180	200 140	200	200 140	200 140	200 140	200 130	200
20	130	130	95	52	52	130	95	140	95	95	95	95	140
30	95	95	73	41	41	95	65	95	65	65	65	65	95
40	69	71	52	32	32	69	52	65	52	52	52	52	65
50	52	52	41	25	25	52	40	52	40	40	40	40	52
60	41	41	32	17	17	40	31	40	31	31	31	31	40
70		32	25	10	10	33	25	31	25	25	25	25	31
80						25	17	25	17	17	17	17	25
90						17	10	17 10	10	10	25 17 10	10	17 10
100						10							