GangNam-STAIN™ Prestained Protein Ladder

iNtRON Biotechnology

Cat. No. 24052 250 $\mu\ell$

Description

The GangNam-STAIN™ Prestained Protein Ladder is a three-color protein standard with 12 pre-stained proteins covering a wide range molecular weights from 10 to 245 kDa. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa, respectively) when separated on SDS-PAGE (Tris-glycine buffer). The GangNam-STAIN™ Prestained Protein Ladder 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 and is ready to use.

General Use

1. Let GangNam-STAIN™ adjust to room temperature before use. After thawing completely, mix them thoroughly.
2. 3 $\mu\ell$ or 4 $\mu\ell$ per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively.
3. Load samples.
4. Connect the power supply and start electrophoresis.

Contents

Approximately 0.1~0.4 mg/ml of each protein in the buffer (20mM Trisphosphate, pH 7.5 at 25°C), 2 % SDS, 1mM 2- Mercaptoethanol, 3.6 M Urea, and 15 % (v/v) Glycerol).
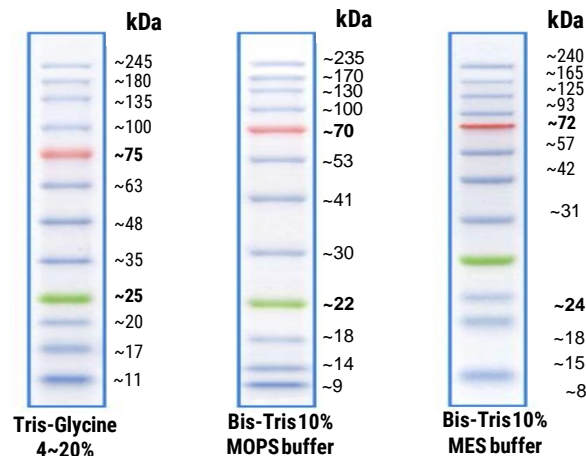
Storage

Stable for up to 3 months at 4°C. For long term storage, store at -20°C.

Quality Control

Under suggested conditions, GangNam-STAIN™ Prestained Protein Ladder resolves 12 major bands in 15% SDS-PAGE (Tris-glycine buffer) and after Western blotting to nitrocellulose membrane.

Guide for Molecular Weight Estimation (kDa)

Migration patterns of GangNam-STAIN™ in different electrophoresis conditions are listed below.

kDa	kDa	kDa
~245	~235	~240
~180	~170	~165
~135	~130	~125
~100	~100	~93
~75	**~70**	**~72**
~63	~53	~57
~48	~41	~42
~35	~30	~31
~25	**~22**	
~20	~18	**~24**
~17	~14	~18
~11	~9	~15
		~8

Tris-Glycine 4~20% | **Bis-Tris 10% MOPS buffer** | **Bis-Tris 10% MES buffer**

Note : The apparent molecular weight (kDa) of each protein has been determined by calibration against an unstained protein standards; Supplemental data should be considered for more accurate adjustment in different electrophoresis conditions.

Caution : Not intended for human or animal diagnostic or therapeutic uses.

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