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BenchMark™ Pre-Stained Protein Ladder

Cat. no. 10748-010 Size $2 \times 250 \,\mu$ L Store at -30° C to -10° C Pub. Part no. 10748010.pps MAN0000876 Rev. Date: 14 October 2011

Description

The BenchMark™ Pre-Stained Protein Ladder is designed for use in SDS-PAGE using Tris-Glycine gels for estimating protein molecular weight, and evaluating western transfer efficiency. Covalently coupled dyes allow easy visualization of the ladder during, and after electrophoresis.

Features of the BenchMark[™] Pre-Stained Protein Ladder:

- Consists of 10 pre-stained protein bands in the range of 6–180 kDa (proteins are covalently coupled to a blue or pink dye)
- Includes a protein coupled to a pink dye (fourth band from the top) to ensure proper identification of each protein band
- Supplied in a ready-to-use format

Note: Coupling of the chromophores to the proteins affects the apparent molecular weight of proteins in SDS-PAGE relative to unstained standards. Use pre-stained protein ladders to determine the approximate molecular weight of proteins. To accurately estimate the molecular weight of proteins, use unstained protein ladders.

Specifications

Contents: $2 \times 250 \ \mu l$ of BenchMarkTM Pre-Stained Protein Ladder

Storage Buffer: 50 mM Tris-HCl, pH 6.8; 5 mM EDTA; 10 mM DTT;

1% (w/v) SDS; 10% (w/v) glycerol

Storage: Store at -30°C to -10°C

Stability: 1 year at –20°C

Product Use For research use only. Not for human or animal therapeutic or diagnostic use.

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Directions

The $BenchMark^{\mbox{\tiny M}}$ Pre-Stained Protein Ladder is supplied in a ready-to-use format.

Do not heat or add reducing agent to the ladder.

- 1. Thaw the ladder at room temperature.
- 2. Vortex gently to ensure the solution is homogenous.
- Load the ladder into the well of an SDS gel using the loading volumes listed below to obtain the best results:

Gel Type	Electrophoresis	Blotting
Mini-Gel	10 μL	5 μL
Standard Gel	20 μL	10 μL

Example

The average apparent molecular weights of the protein bands in the BenchMark $^{\scriptscriptstyle{\text{TM}}}$ Pre-Stained Protein Ladder are shown below. Ten microliters of the BenchMark $^{\scriptscriptstyle{\text{TM}}}$ Pre-Stained Protein Ladder was separated on a Novex $^{\scriptscriptstyle{\text{(S)}}}$ 4–20% Tris-Glycine gel.

		Band No.	Average Apparent Molecular Weight
1	-	1	~180 kDa
2	-	2	~115 kDa
3		3	~82 kDa
4 5		4	~64 kDa*
6	-	5	~49 kDa
7	_	6	~37 kDa
8	-	7	~26 kDa
9	-	8	~19 kDa
10	_	9	~15 kDa
		10	~6 kDa

*Orientation band (pink in color)

Directions

The BenchMark $^{\mathsf{M}}$ Pre-Stained Protein Ladder is supplied in a ready-to-use format.

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Standard Gel	20 μL	10 μL

Example

2

The average apparent molecular weights of the protein bands in the BenchMark $^{\scriptscriptstyle{\text{TM}}}$ Pre-Stained Protein Ladder are shown below. Ten microliters of the BenchMark $^{\scriptscriptstyle{\text{TM}}}$ Pre-Stained Protein Ladder was separated on a Novex $^{\scriptscriptstyle{\text{(9)}}}$ 4–20% Tris-Glycine gel.

		Band No.	Average Apparent Molecular Weight	
1	-	1	~180 kDa	
2	-	2	~115 kDa	
3	-	3	~82 kDa	
4 5		4	~64 kDa*	
6	-	5	~49 kDa	
7	_	6	~37 kDa	
8	-	7	~26 kDa	
9	-	8	~19 kDa	
10	_	9	~15 kDa	
		10	~6 kDa	

*Orientation band (pink in color)