



**SMOBio**

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## Product Information

ExcelBand™ series

### All Blue Broad Range Protein Marker (9-240 kDa)

#### PM1700

Size: 250  $\mu$ l  $\times$  2  
5  $\mu$ l per well for 100 applications

## Storage

4°C for 3 months  
-20°C for 24 months

## Loading Volume

- **3  $\mu$ l** or **5  $\mu$ l** per loading for clear visualization during electrophoresis on a 15-well or 10-well mini-gel.
- **1.5~2.5  $\mu$ l** per well for general Western blotting transfer.
- Apply more for a thicker (> 1.5 mm) or larger gel.

## Description

The PM1700 ExcelBand™ All Blue Broad Range Protein Marker is a blue protein standard with 12 pre-stained proteins covering a wide range of molecular weights from 10 to 240 kDa in Tris-Glycine buffer (9 to 235 kDa in Bis-Tris (MOPS) buffer and Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore, and two reference bands (at 25 kDa and 72 kDa, respectively) are enhanced in intensity when separated on SDS-PAGE (Tris-Glycine buffer).

The PM1700 ExcelBand™ All Blue Broad Range Protein Marker is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (nitrocellulose, PVDF, or nylon) and for approximating the size of proteins.


The marker is supplied in gel loading buffer and is ready to use. **Do NOT heat, dilute, or add reducing agent before loading.**

## Contents

Approximately 0.1~0.5 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5 at 25°C), 2% SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15% (v/v) Glycerol).

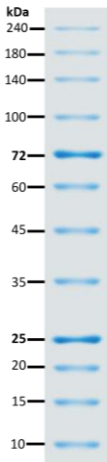
## Guide for Molecular Weight Estimation

Migration patterns and approximate MWs (kDa) of PM1700 ExcelBand™ All Blue Broad Range Protein Marker in different electrophoresis conditions are listed below:

Band	Color	TRIS-GLYCINE	BIS-TRIS (MOPS)	BIS-TRIS (MES)	
1	Blue	240	235	235	
2	Blue	180	170	170	
3	Blue	140	130	130	
4	Blue	100	93	93	
5	<b>Blue</b>	<b>72</b>	<b>68</b>	<b>70</b>	
6	Blue	60	53	53	
7	Blue	45	41	42	
8	Blue	35	30	30	
9	<b>Blue</b>	<b>25</b>	<b>22</b>	<b>23</b>	
10	Blue	20	18	18	
11	Blue	15	14	14	
12	Blue	10	9	9	



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**All Blue Broad Range Protein Marker**  
**PM1700**



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



## **Quality Control**

Under suggested conditions, PM1700 ExcelBand™ All Blue Broad Range Protein Marker resolves 12 major bands in SDS-PAGE (Tris-Glycine, MOPS, and MES buffer) and after Western blotting transfer to a nitrocellulose membrane.

## **Other information**

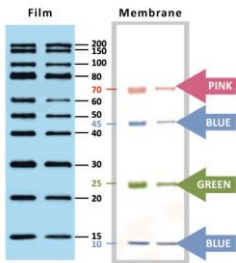
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Caution: Not intended for human or animal diagnostic or therapeutic uses.

## Related Products

- PM1500 ExcelBand All Blue Regular Range Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM1600 ExcelBand All Blue Regular Range Plus Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM2400 ExcelBand Pink Blue Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM2500 ExcelBand 3-color Regular Range Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM2510 ExcelBand Enhanced 3-color Regular Range Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM2600 ExcelBand 3-color High Range Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM2610 ExcelBand Enhanced 3-color High Range Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM2700 ExcelBand 3-color Broad Range Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM2800 ExcelBand 3-color Extra Range Protein Marker, 250  $\mu\text{l}$   $\times$  2
- PM5000 ExcelBand 3-color Pre-stained Protein Ladder, Regular Range, 250  $\mu\text{l}$   $\times$  2
- PM5100 ExcelBand 3-color Pre-stained Protein Ladder, High Range, 250  $\mu\text{l}$   $\times$  2
- PM5200 ExcelBand 3-color Pre-stained Protein Ladder, Broad Range, 250  $\mu\text{l}$   $\times$  2

- PS1000 FluoroStain Protein Fluorescent Staining Dye (Red, 1,000X), 1 ml
- DM1100 ExcelBand 50 bp DNA Ladder, 500 µl
- DM2200 AccuBand 100 bp DNA Ladder II, 500 µl
- DM3100 ExcelBand 1 KB (0.25-10 kb) DNA Ladder, 500 µl
- DM5100 ExcelBand Super Range DNA Ladder, (50 bp- 25 kb), 500 µl
- VE0100 B-BOX™ Blue Light LED epi-illuminator, AC 100-240V, 50/60Hz
- WM1000 YesBlot Western Marker I, 250 µl



YesBlot™ Western Marker I