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Product Information

GeneFist™ series

3-color High Range Protein Marker (9-245 kDa)

GF6619

Size: 250 μ l \times 1
5 μ l per well for 100 applications

Storage

4°C for 3 months
-20°C for 24 months

Loading Volume

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

Description

The GF6619 GeneFist™ 3-color High Range Protein Marker is a ready to use three-color protein standard with 12 pre-stained proteins covering a wide range of molecular weights from 10 to 245 kDa in Tris-Glycine buffer (9 to 235 kDa in Bis-Tris (MOPS) buffer and 10-235 kDa in Bis-Tris (MES) buffer). Proteins are covalently coupled with different chromophores for easy identification of bands, with two reference proteins carrying enhanced intensity corresponding to a **green** at 25 kDa and **red** at 75 kDa, respectively, as separated on SDS-PAGE (Tris-Glycine buffer).

The GF6619 GeneFist™ 3-color High Range Protein Marker 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 marker is supplied in gel loading buffer and is ready to use. **Do NOT heat, dilute, or add reducing agents before loading.**

Contents

Approximately 0.1~0.4 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 GF6619 GeneFist™ 3-color High Range Protein Marker in different electrophoresis conditions are listed below:

| Band | Color | TRIS-GLYCINE | BIS-TRIS (MOPS) | BIS-TRIS (MES) | |
|------|-------|--------------|-----------------|----------------|--|
| 1 | Blue | 245 | 235 | 235 | |
| 2 | Blue | 180 | 170 | 170 | |
| 3 | Blue | 140 | 130 | 130 | |
| 4 | Blue | 100 | 93 | 93 | |
| 5 | Red | 75 | 70 | 72 | |
| 6 | Blue | 60 | 53 | 53 | |
| 7 | Blue | 45 | 41 | 42 | |
| 8 | Blue | 35 | 30 | 30 | |
| 9 | Green | 25 | 22 | 23 | |
| 10 | Blue | 20 | 18 | 18 | |
| 11 | Blue | 15 | 14 | 14 | |
| 12 | Blue | 10 | 9 | 10 | |



3-color High Range Protein Marker

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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, GF6619 GeneFist™ 3-color High 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

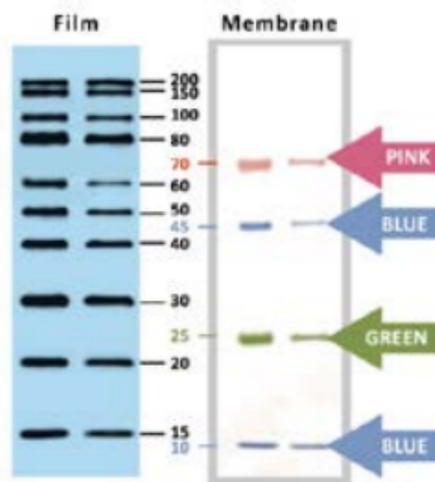
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Caution: Not intended for human or animal diagnostic or therapeutic uses.

Related Products

- GF6150 GeneFist All Blue Regular Range Protein Marker, 250 μl \times 2
- GF6160 GeneFist All Blue Regular Range Plus Protein Marker, 250 μl \times 2
- GF6170 GeneFist All Blue Broad Range Protein Marker, 250 μl \times 2
- GF6240 GeneFist Pink Blue Protein Marker, 250 μl \times 2
- GF6616 GeneFist 3-color Regular Range Protein Marker, 250 μl \times 2
- GF6619 GeneFist 3-color High Range Protein Marker, 250 μl \times 2
- GF6261 GeneFist Enhanced 3-color High Range Protein Marker, 250 μl \times 2
- GF6270 GeneFist 3-color Broad Range Protein Marker, 250 μl \times 2
- GF6280 GeneFist 3-color Extra Range Protein Marker, 250 μl \times 2
- GF6500 GeneFist 3-color Pre-stained Protein Ladder, Regular Range, 250 μl \times 2
- GF6510 GeneFist 3-color Pre-stained Protein Ladder, High Range, 250 μl \times 2
- GF6520 GeneFist 3-color Pre-stained Protein Ladder, Broad Range, 250 μl \times 2

- GF2100 GeneFist Protein Fluorescent Staining Dye (Red, 1,000X), 1 ml
- GF5110 GeneFist 50 bp DNA Ladder, 500 μ l
- GF5220 GeneFist 100 bp DNA Ladder II, 500 μ l
- GF5310 GeneFist 1 KB (0.25-10 kb) DNA Ladder, 500 μ l
- GF5510 GeneFist Super Range DNA Ladder, (50 bp-25 kb), 500 μ l
- GF3010 GeneFist Blue Light LED epi-illuminator, AC 100-240V, 50/60Hz
- GF1100 GeneFist Western Marker I, 250 μ l



GeneFist Western Marker I