

Product Information

Color Marker Ultra Low Range (M.W. 1,060–26,600)

Catalog Number **C6210**
Storage Temperature –20 °C

Product Description

The Color Marker Ultra Low Range is designed for use in a Tris-tricine SDS-PAGE system and in transfer to solid phase supports such as nitrocellulose, nylon, and PVDF membranes. The Color Marker Ultra Low Range consists of six peptides and proteins, each conjugated to a colored dye, thereby, providing a visual monitor of migration during electrophoresis and/or a visual check of transfer efficiency to a membrane.

Each vial of marker contains 200 µL of a mixture of six dye conjugates (see Table 1) in 10 mM Tris-HCl, pH 7.0, containing 0.5% SDS, 2 mM EDTA, 33% glycerol, 4 M urea, and 0.01% sodium azide.

When precise molecular mass determinations are required, use the Ultra Low Range Molecular Weight Marker, Catalog Number M3546.

The Color Marker Ultra Low Range may be stained with Brilliant Blue G, but band intensity will vary. The marker produces relatively broad bands when compared to unconjugated proteins.

Table 1.
Peptide and Protein Mixture in C6210

Polypeptide	Native Molecular Mass of Subunit (Daltons)*	Color of Conjugate
Triosephosphate Isomerase, rabbit muscle	26,600	Orange
Myoglobin, horse heart	17,000	Violet
α-Lactalbumin, bovine milk	14,200	Red
Aprotinin, bovine lung	6,500	Blue
Insulin Chain B, Oxidized, bovine	3,496	Blue
Bradykinin	1,060	Blue

* These native molecular masses are altered by the attachment of dye.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the Color Marker Ultra Low Range in aliquots at –20 °C. By eliminating multiple freeze/thaw cycles, the effective lifetime of the product will be prolonged.

Procedure

Before applying to a gel, heat an aliquot of the marker in a 65 °C water bath for 2 minutes.

Recommended sample volumes:

- standard size gel (16 × 14 cm) – 20 µl for visualization on the gel or 10 µl when transferring to a membrane
- mini-gel (10 × 10 cm) – 10 µl for visualization on the gel or 5 µl when transferring to a membrane

Recommended gel percentages: 16.5% Tris-Tricine and 10-20% Tris-Tricine

Recommended running buffer: Tris-Tricine-SDS Buffer 10× (Catalog Number T1165)

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