

SARS-CoV Membrane (M) Protein with C-terminal Histidine Tag, Recombinant from *E. coli*

Catalog No. NR-878

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Product Description:

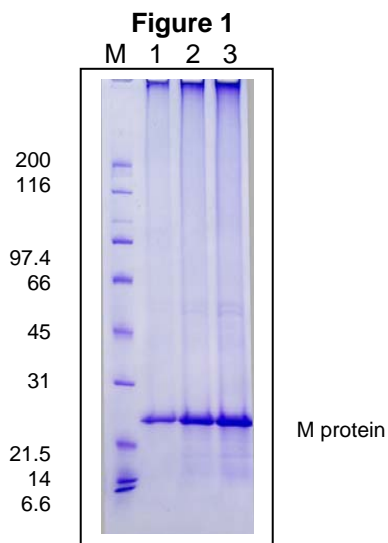
Recombinant SARS-CoV membrane (M) protein with a C-terminal histidine tag was expressed in *E. coli* and purified by nickel affinity, cation exchange, and size exclusion chromatography.¹

Lot: 110705

Manufacturing Date: SEP2005

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Coomassie Blue densitometer scan)	Report results	~ 27,000 Da > 95% pure (see Figure 1)
Endotoxin Content (Limulus Amoebocyte Lysate assay)	Report results	< 500 EU/mg

¹LifeSensors Inc., Malvern, PA.



Purified SARS-M protein was run on a 4–15% gradient SDS-acrylamide gel and stained with Coomassie Blue.

Since M protein is highly hydrophobic, the protein was solubilized in 9 M urea, 2 M thiourea, 1% digitonin prior to mixing with SDS-PAGE sample buffer [1% SDS, 10% glycerol, 6.25 mM Tris-HCl (pH 6.8), 20 mM DTT]. The protein was incubated at room temperature and was not boiled prior to loading. Membrane proteins do aggregate, especially during SDS-PAGE analysis, and some of the protein does not enter the gel, as shown in the Figure 1.

Lanes: M: Molecular weight markers in kDa; 1–3: 2 µg, 4 µg, and 6 µg of the protein, respectively.

Date: 07 FEB 2006

Signature: Signature on File

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