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Product Information

SILVER STAIN SDS MOLECULAR WEIGHT STANDARD MIXTURES

Product Nos. **M 5505, M 5630, and M 6539**

Store at -20°C

Product Information

Content:

Each sample vial (Product No. M 5630, M 5505 or M 6539) contains 200 μl of a mixture of proteins in 300 mM NaCl, 100 mM DTT, 3 mM NaN_3 , and 50% glycerol; each vial of Laemmli Sample Buffer (Product No. S 3401) contains 6 mls of 4% SDS, 20% glycerol, and 10% 2-mercaptoethanol in 0.125 M Trizma Base, pH 6.8.

Dilution:

Completely mix the contents of sample vial (Product No. M 5630, M 5505 or M 6539) with Laemmli Sample Buffer (Product No. S 3401), aliquot, and freeze (1:30 final dilution).

Sigma Silver Stain Molecular Weight Standard Mixtures (Product Nos. M 5505, M 5630 and M 6539) are designed for molecular weight determinations on SDS-PAGE using the Laemmli system. Each has been formulated to yield bands of approximately equal intensity. Clear backgrounds are obtained when Sigma Silver Staining Kits AG-5, AG-25 or RSK-1 are used.

Composition

Silver Stain SDS Molecular Weight Mixture

Protein	Source	Mol. Wt. (Daltons)	Low (M 5630)	High (M 5505)	Wide Range (M 6539)
α_2 -Macroglobulin	Human Plasma	180,000			X
β -Galactosidase	<i>E. coli</i>	116,000		X	X
Phosphorylase b	Rabbit muscle	97,400		X	X
Serum Albumin	Bovine	66,000	X	X	X
Fumarase	Porcine heart	48,500	X	X	x
Carbonic Anhydrase	Bovine erythrocytes	29,000	X	X	X
β -Lactoglobulin	Bovine milk	18,400	X		X
α -Lactalbumin	Bovine milk	14,200	X		X
Aprotinin	Bovine lung	6,500			X

Preparation of Markers

Remove diluted sample from freezer and heat in a boiling water bath for 1-2 minutes. Apply 20 μ l of sample per well for a 14 x 16 cm Laemmli SDS-PAGE gel; use 10 μ l of sample per well for a 6.5 cm X 8.5 cm minigel (other size gels will require proportional changes in these volumes). For the Wide Range Silver Stain SDS Molecular Weight standard Mixture, a 10-20% gradient gel is recommended.

NOTE: Repeated freezing and thawing is not recommended.

Reference

Laemmli, U.K, Nature 227:680 (1970).
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Please see reverse side of the invoice or packing slip.