

4 x SDS-PAGE separation glue buffer solution

Item No. : S1051

Specification: 100mL/500mL

Store: at room temperature, valid for 12 months.

Product Description:

This reagent is a mixture of Tris and SDS, mainly used for SDS-PAGE gel (denatured polyacrylamide gel) preparation experiment. When preparing the separation glue, 2.5mL (4 times diluted) was added to the 10mL glue making system.

Component concentration

Tris-HCl (pH=8.8) 1.5mol/L

SDS 0.4% (W/V)

What to watch for:

If there is white precipitation, can be placed in 37°C water bath, precipitation and dissolution before use. Select the gel concentration according to the target protein molecular weight, and prepare according to the following table. Mix the separation glue first, then the concentration glue. (For reference only)

	Separation glue 15%	Separation glue 12%	Separation glue 10%	Separation glue 8%	Concentrated glue 5%
Total volume	10mL	10mL	10mL	10mL	5mL
30% acrylamide (29:1)	5mL	4mL	3.3mL	2.7mL	0.83mL
4 x SDS-PAGE concentrated glue buffer solution	0	0	0	0	1.25mL
4 x SDS-PAGE separation glue buffer solution	2.5mL	2.5mL	2.5mL	2.5mL	0
10% ammonium persulfate	100μL	100μL	100μL	100μL	75μL
TEMED	10μL	10μL	10μL	10μL	7.5μL
ddH ₂ O	2.4mL	3.4mL	4.1mL	4.7mL	2.84mL
Optimum separation range	10-40kD	12-60kD	20-80kD	30-90kD	—

Note: S1052 (4 x SDS-PAGE Concentrated glue buffer solution) is formulated as follows:

Component concentration

Tris-HCl (pH=6.8) 0.5mol/L

SDS 0.4% (W/V)

This reagent is a mixture of Tris and SDS, mainly used in SDS-PAGE gel (denatured polyacrylamide gel) preparation experiments. When preparing the concentrated gel, 2.5mL (4 times diluted) was added to the 10mL glue-making system.

Related literature:

[1] Xiaoqing Tang, Rongqian Chen, Ling Dong, et al. Role of Paraoxonase-1 in the Protection of Hydrogen Sulfide- Donating Sildenafil (ACS6) Against Homocysteine-Induced Neurotoxicity. Journal of Molecular Neuroscience. May 2013. (IF 3.412)

Note: For more information about this product, please refer to Solarbio website.