NewFlash Protein PAGE For Low MW

Cat#: 8012061

[Product name]
NewFlash Protein PAGE Gel for Low MW

[Model & Size]

Product Name	Cat No.	Size	Component No.	Component Name	Component Size	Quantity
NewFlash Protein PAGE Gel for Low MW	8012061	50 T/Kit	8012061-1	Stacking Gel Solution A	50 mL	1 bottle
			8012061-2	Stacking Gel Solution B	50 mL	1 bottle
			8012061-3	Resolving Gel Solution A	125 mL	1 bottle
			8012061-4	Resolving Gel Solution B	125 mL	1 bottle
			8012061-5	Ammonium Persulfate (APS)	0.5 g	1 bottle

[Product Description]
NewFlash Protein PAGE Gel for Low MWkit is a product with a low acrylamide concentration, and adopts the latest gel technology to reduce the concentration of acrylamide and enhance the gelation rate. The kit is easy to use, and prepares gel quickly and safely.
Protein gel preparation is simple, and can be completed in 25 minutes by mixing resolving gels and stacking gels at the same time.
Protein gel electrophoresis can be completed either at 300 V constant high voltage in about 45 minutes or at normal voltage.
The kit is suitable for separation and identification of 1-80 kDa protein, and for separation and identification of low molecular weight proteins.

[Storage and Transportation]
Stored at 2℃~8℃ protected from light, with a shelf life of 24 months.
Transported on blue ice.

[The number of gels prepared per kit]

Gel Size	0.75 mm Mini-gel	1.0 mm Mini-gel	1.5 mm Mini-gel
Gel Number	62 pieces	50 pieces	33 pieces

[Operating Instructions]
1. With Biosci™ NewFlash Protein PAGE Gel for Low MWkit ,niformly mix low molecular weight resolving gel solutions A and B at a ratio of 1:1 (As a reference, for a 0.75/1.0/1.5 mm gel, respectively draw 2.0/2.5/3.8 mL of low molecular weight resolving gel solutions A and B). Gel preparation can be completed in a 15 mL or 50 mL centrifuge tube.
2. With Biosci™ NewFlash Protein AnyKD PAGE Gel kit , uniformly mix low molecular weight stacking gel solutions A and B at a ratio of 1:1 (As a reference, for a 0.75/1.0/1.5 mm gel, respectively draw 0.8/1.0/1.5 mL of low molecular weight stacking gel solutions A and B).

Note: With this product, gelation is rapid. Do not wait for pouring the resolving gel into the glass plate to start the preparation of stacking gel. Excessive waiting time will lead to partial polymerization of the resolving gel, resulting in uneven division surface of resolving gel and stacking gel, which will influence the electrophoresis effect.

3. Add 10% APS solution to the low molecular weight resolving gel solution in step 1 (for 5 mL of low molecular weight resolving gel solution, add 50 μL of 10% APS solution), and pour the uniformly mixed low molecular weight resolving gel solution into the glass plate to a position 1.5 cm from the top of the front glass plate or 0.5 cm from teeth of a comb.

Note: When it is necessary to prepare more than one protein gels at one time, the amount of APS can be appropriately reduced to lower the gelation rate. Excessive APS will result in gel embrittlement.

4. Add 10% APS solution to the low molecular weight stacking gel solution in step 2 (for 2 mL of low molecular weight stacking gel solution, add 20 μL of 10% APS solution), and directly pour the uniformly mixed low molecular weight stacking gel solution on the resolving gel solution without waiting for solidification of the resolving gel solution.

Note: The kit can complete protein gel casting at one time without mixing stacking gel with resolving gel.

5. Insert the comb into the gel, and keep it standing for 15-20 minutes to wait for gel polymerization.

Note: Gels can be stored for several weeks at 2~8℃ in sealing bags with a small amount of electrophoresis buffer.

6. After gel polymerization, remove the comb, and purge gel pores with a 1 mL injector or a pipette for sample loading. It is recommended that low molecular weight protein marker shall be used to indicate the molecular weight of the protein samples on PAGE.

7. The electrophoresis of this product can be carried out rapidly in a conventional electrophoresis buffer. The voltage can be set to a maximum of 300 V, at which electrophoresis can be completed in about 45 minutes. The current shall not exceed 140 mA. The voltage can be reduced if the current is too high (to avoid much heat).

Note: The electrophoresis of this product can be carried out at normal voltage.

[Precautions]

1. This product contains a small amount of acrylamide which is corrosive. For your safety and health, please wear a lab coat and disposable gloves.
2. This product is only used for scientific research by professionals and shall neither be used for clinical diagnosis, treatment, food or drugs nor stored in ordinary housing.
3. **Add 5 mL of deionized water to the ammonium persulfate (APS) tube to prepare 10% APS solution, and repack the solution into small portions for storage.**

[Description of Product Symbol]

Product Symbol	Description	Product Symbol	Description
REF	Catalog Number	LOT	Batch Code
	Date of Manufacture		Manufacturer
	Keep away from light		Temperature limit
	Consult instructions for use		Use-by date

[Instruction Revision Date]

April 11,2024

[Company Information]

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