NewFlash Protein PAGE For High MW

Cat#: 8012071

[Product name]
NewFlash Protein PAGE For High MW

[Model & Size]

Product Name	Cat No.	Size	Component No.	Component Name	Component Size	Quantity
NewFlash Protein PAGE For High MW	8012071	50 T/Kit	8012071-1	Stacking Gel Solution A	50 mL	1 bottle
			8012071-2	Stacking Gel Solution B	50 mL	1 bottle
			8012071-3	Resolving Gel Solution A	125 mL	1 bottle
			8012071-4	Resolving Gel Solution B	125 mL	1 bottle
			8012071-5	Ammonium Persulfate (APS)	0.5 g	1 bottle

[Product Description]
NewFlash Protein PAGE For High MW 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 min 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 25 min or at normal voltage.
The kit is suitable for separation and identification of 50-300 kDa protein, and for separation and identification of high 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 For High MW kit, uniformly mix high 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 high 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 PAGE For High MW kit, uniformly mix high 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 high 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 high molecular weight resolving gel solution in step 1 (for 5 mL of high molecular weight resolving gel solution, add 50 μL of 10% APS solution), and pour the uniformly mixed 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 high molecular weight stacking gel solution in step 2 (for 2 mL of high molecular weight stacking gel solution, add 20 μL of 10% APS solution), and directly pour the uniformly mixed 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 min 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 high molecular weight protein marker shall be used to indicate the molecular weight of the protein samples on PAGE gel.

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 25 min. 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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