

## NewFlash Protein AnyKD Color PAGE Gel-Yellow

Cat#: 8012031

### [Product name]

NewFlash Protein AnyKD Color PAGE Gel-Yellow

### [Model & Size]

Product Name	Cat No.	Size	Component No.	Component Name	Component Size	Quantity
NewFlash Protein AnyKD Color PAGE Gel-Yellow	8012031	50 T/Kit	8012031-1	Stacking Gel Solution A	50 mL	1 bottle
			8012031-2	Stacking Gel Solution B-Yellow	50 mL	1 bottle
			8012031-3	Resolving Gel Solution A	125 mL	1 bottle
			8012031-4	Resolving Gel Solution B	125 mL	1 bottle
			8012031-5	Ammonium Persulfate (APS)	0.5 g	1 bottle

### [Product Description]

NewFlash Protein AnyKD Color PAGE Gel kit 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, prepares gel quickly and safely, no TEMED reagent, no special smell, and provides color stacking gel (color top gel), which is easy to sample.

Protein gel coagulates quickly, and the entire gel making process can be completed in 25 minutes.

Protein gel electrophoresis can be completed either at 300 V constant high voltage in about 25 minutes or at normal voltage.

The kit is suitable for separation and identification of 10-250 kDa protein, and there is no need to adjust the concentration of resolving gel according to protein molecular weight. Color stacking gel is easy to sample and remove after electrophoresis.

### [Storage and Transportation]

Stored at 2°C~8°C 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 NewFlash Protein AnyKD Color PAGE Gel kit, uniformly mix 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 resolving gel solutions A and B). Gel preparation can be completed in a 15 mL or 50 mL centrifuge tube.

2. With NewFlash Protein AnyKD Color PAGE Gel kit, uniformly mix 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 stacking gel solutions A and B).

3. Add 10% APS solution to the resolving gel solution in step 1 (for 5 mL of resolving gel

solution, add 50  $\mu$ L 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. Quickly and carefully add water, anhydrous ethanol, or isopropyl alcohol to cover the resolving gel solution. Alternatively, you can proceed directly to Step 5 without sealing the resolving gel solution, so that the liquid level of the resolving gel solution and the stacking gel solution is not very smooth, which is a normal phenomenon, does not affect the electrophoretic results.

**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. After the resolving gel solution has solidified (3~10 minutes), pour out the covering liquid, wash the top of the resolving gel solution with deionized water for several times to remove the unpolymerized gel, remove the top liquid, and absorb the residual deionized water with filter paper.

5. Add 10% APS solution to the stacking gel solution in step 2 (for 2 mL of stacking gel solution, add 20  $\mu$ L of 10% APS solution), and directly pour the uniformly mixed stacking gel solution on the resolving gel solution. 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°C~8°C 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.

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 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
	Catalog Number		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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