Nucleic acid non-denatured polyacrylamide gel preparation kit

Item No. : P1340

Specification: 25T/50T

Store: 2-8°C, away from light, valid for 1 year

Product Contents:

Ingredients	P1340-25T	P1340-50T	Save conditions
40%Acr/Bis(19:1)	100mL	100mL×2	4°C, away from light
10 x TBE powder	1L×1	1L×2	Normal temperature
PAGE glue coagulant	1g	2g	Dry powder 4C; Solution -20°C
PAGE gel accelerator	0.8mL	1.5mL	4°C, away from light

Product Information:

Polyacrylamide gel electrophoresis has a very high resolution, and can even distinguish molecular weight differences of 10-3,000 bpDNA fragments. Under the right conditions, DNA molecules that differ in size by only one base pair can be separated. This kit contains the relevant reagents for gluing. Customers only need to bring their own gluing equipment and distilled water to make gluing. It can be used for analysis of restricted enzyme digestion, PCR products, DNA imprinting analysis and primer analysis.

Instructions for gluing:

1、First, add distilled water or deionized water (10mL of water per gram of PAGE glue coagulant) to the dry powder of PAGE glue coagulant to form a 10% solution, and then pack the solution into a small volume and freeze it at -20°C, and use it after melting when preparing gel. The shelf life of 4°C is 7-30 days.

2、Take out 1 bag of 10×TBE buffer powder, dissolve it with 800mL distilled water first, and finally fill it with distilled water to 1L, that is, 10×TBE buffer.

3、The electrophoresis solution buffer is 1×TBE, and the 10×TBE buffer is diluted 10 times with distilled water, that is, 1×TBE.

4、According to the molecular weight of nucleic acid size, select the gel concentration and prepare according to the following table. (The **amount of preparation can be added or subtracted according** to the following table. If the concentration of glue used is different from the above, it can be adjusted by itself, mainly to adjust the amount of 40% Acr/Bis (need concentration × total volume ÷40%), and finally make up the total volume with water.)

Configuration sheet:

	15mL	**15mL**	**15mL**	**15mL**	**15mL**	**15mL**
	20%	**15%**	**12%**	**8%**	**6.5%**	**5%**
40% gumming solution (19:1)	7.5mL	5.625mL	4.5mL	3mL	2.44mL	1.875mL
10 X TBE	1.5mL	1.5mL	1.5mL	1.5mL	1.5mL	1.5mL
10%PAGE glue coagulant	150muL	150muL	150muL	150muL	150muL	150muL
PAGE gel accelerator	15muL	15muL	15muL	15muL	15muL	15muL
Double steamed water	5.835mL	7.71mL	8.835mL	10.335mL	10.89mL	11.46mL

Notes:

1. PAGE adhesive coagulant and 10%PAGE adhesive coagulant are added last, and the reagent added before adding should be mixed.
2. PAGE adhesive coagulant is volatile. Please close the bottle tightly after use.
3. At room temperature gel time should not be less than 30min, such as the temperature is too low, can be put 37℃ temperature box solidification.
4. Insert the comb immediately after filling the glue.
5. After the glue has solidified, put it into the electrophoresis solution (let the electrophoresis solution spread over the sample holes), gently pull out the comb to prevent the deformation of the sample holes.
6. It is recommended to select the appropriate glue concentration and voltage for the glue running experiment.
7. The lower the concentration of glue, the more transparent the glue, the softer the glue, dyeing please pay attention to the operation to prevent the glue from breaking.
8. Separation range (for reference only)

Glue concentration	Separation fragment size /bp
5%	100-500
8%	60-400
12%	50-200
20%	5-100

Related products:

G7210 *PAGE gel silver dye kit*
D1020 *10 x DNA loading buffer*