Prestained Agarose Gel Electrophoresis Kit

Cat#：8022032

[Product Name]

Prestained Agarose Gel Electrophoresis Kit

[Model & Size]

Product Name	Cat No.	Size	Component No.	Component Name	Component Size	Quantity
Prestained Agarose Gel Electrophoresis Kit	8022032	10 PCS / Kit	8022032-1	Prestained Agarose Gel	10 PCS	1 Kit
			8022032-2	Instant TAE Buffer	1 L / pack	1 pack
			8022032-3	6× DNA Loading Buffer	400 μL	1 branch
			8022032-4	DNA Marker	80 μL	1 branch

[Storage And Transportation]

1.Prestained Agarose Gel,2℃~8℃;
2.Instant TAE Buffer,10℃~30℃;
3.6×DNA Loading Buffer,-25℃~-15℃;
4.DNA Marker,-25℃~-15℃;
Transported on blue ice.

After receiving the goods, please keep each component in accordance with the corresponding storage condition.The shelf date is 1 year.

[Product characteristics]

This product is mainly used for nucleic acid electrophoresis detection experiment, with the following characteristics and advantages:

1. Ready to use: this product contains agarose gel, nucleic acid dye, electrophoresis solution and loading buffer, which will save the trouble to purchase all these separately.
2. Time-saving: the prefabricated gel saves the hassle of making gel, and Instant TAE Buffer speeds up the configuration of buffer, which can save about one hour of experimental time.
3. Easy to handle: The special dye is uesd in the Prestained Agarose Gel, which is safe and reliable! During electrophoresis there is no need to stain or poststain the solution, thus making it easier to handle and ready to use. It is recommended to use a voltage of 80~120 volt, or adjust it to a suitable voltage according to your experiment.
4. Expense saving: The agarose gel can be reused after the DNA fragments obtained, which will not affect the subsequent DNA connection and other reactions.
5. Compatible: The agarose gel uses the buffer of TAE type, which is the same as that used in the laboratory!

[Product profile]

1. Each package contains 10 blocks of gels. According to the number and volume of the wells, four gel concentrations are for selection as shown in the following table.

Gel Size	Number of well	Width of per well	Length of per well	Volume of per well	Cat. No. for 1.0%	Cat. No. for 1.2%	Cat. No. for 1.5%	Cat. No. for 2.0%
56×60 mm	6	1.5 mm	7.0 mm	52.5 μL	8022031	8022041	8022051	8022061
	8	1.0 mm	4.8 mm	24 μL	**8022032**	8022042	8022052	8022062

	11	1.0 mm	3.0 mm	15 μL	8022033	8022043	8022053	8022063
116×60 mm	13	1.5 mm	7.0 mm	52.5 μL	8022034	8022044	8022054	8022064
	18	1.0 mm	4.8 mm	24 μL	8022035	8022045	8022055	8022065
	25	1.0 mm	3.0 mm	15 μL	8022036	8022046	8022056	8022066

The serie of products includes agarose gels with various gel concentrations. If you need agarose gels with other gel concentration (conventional concentration range: 0.75~2.5%), or other unconventional concentration agarose gels, such as number, width and length of well or agarose gels with different sizes from commonly use, please call us for consultation (86-755-86235300), we will provide you with more service.

2. Instant TAE Buffer is white. Each pouch can be diluted to 1 L of 1× TAE buffer，which is easy to operate and use. TAE buffer is widely used in nucleic acid electrophoresis. It consists of TRIS acetate and EDTA. TAE buffer is often used in electrophoresis to separate genomic DNA, macromolecule superhelix DNA and amplified DNA fragments. DNA fragments larger than 13kb can be separated effectively in TAE buffer.

3. Optimized 6×DNA loading buffer is designed specifically for this gel. Combined with other reagents, it can make the map more clear and sharp. With the buffer compositions optimized, the incorporated tracking dyes bomophenol blue and xylene cyanol FF help to visualize the DNA migration during electrophoresis. Glycerin ensures that samples gather at the bottom of the loaded wells; EDTA binds divalent metal ions and inhibits metal-ion-dependent nucleases. In agarose gel of 1.0%, the mobility rate of bromophenol blue is approximately the same as that of double-stranded DNA fragment of 300 bp, and that of xylene blue FF is approximately the same as that of double-stranded DNA fragment of 4000 bp.

4. DNA Marker: Each set of the product is matched with one specific Marker. If the precast gel with a gel concentration of 1% or 1.2% is used for electrophoresis, it was recommended to use OM5000 Marker. If the precast gel with a gel concentration of 1.5% or 2% is used for electrophoresis, it was recommended to use OM2000 Marker. In addition, the OM2000 or OM5000 can also be chosen for electrophoresis according to experimental needs.

OM2000 DNA Marker is composed of six linear double-stranded DNA fragments of 100 bp, 250 bp, 500 bp, 750 bp, 1000 bp and 2000 bp. 750 bp is the brightening band. In 5 μL solution, the content of each band is about 50 ng, and the brightening band is about 120 ng.

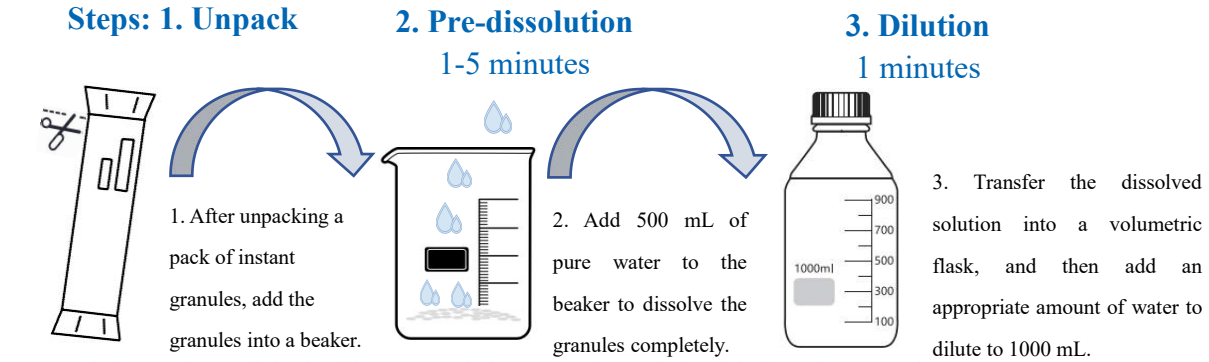
OM5000 DNA Marker is composed of eight linear double-stranded DNA fragments of 100 bp, 250 bp, 500 bp,750 bp, 1000 bp, 2000 bp, 3000 bp and 5000 bp. 750 bp is the brightening band. In 5 μL solution, the content of each band is about 50 ng, and the brightening band is about 120 ng.

The above two specific markers are ready-to-use products that contain 1× Loading Buffer. If gel is 6 or 13 wells, the recommended Marker loading amount is 3~5 μL； If gel is 8 or 18 wells, the recommended Marker loading amount is 2~3 μL； If gel is 11, 25 or 50 wells, the recommended Marker loading amount is 1~2 μL. Or load the other volume for the experiment for electrophoresis.

[Instruction]

1. Preparation:

a. Configure 1× TAE buffer as figure 1.



Note: Wash the container sufficiently with pure water before preparation, and clean it in time after preparation.

Figure 1. Schematic Diagram of Instant Buffer Preparation

b. Take out one kit, take off the plastic package, reverse it, support the two edges with index and middle fingers of both hands, immerse it in the buffer with the opening downward and gently press the central part of the kit with two thumbs. Thus the gel will fall into the buffer with the side of the well upward. Move the gel to make the well end close to negative electrode of the electrophoresis cell. If bubbles are produced in the sample wells, try to remove them.

2. Sample Loading: Mix Optimized 6× DNA loading buffer and DNA sample at a volume ratio of 1:5. Carefully load prepared Marker and the mixed sample into the wells with pipette successively. The appropriate Maker should be selected as the control well.

3. Electrophoresis: Connect the electrophoresis cell to the power source according to the conventions: Red-Anode and Black-Cathode. Turn on the power source. Note that the DNA sample moves from the negative to the positive (the end near the wells that DNA samples are loaded in is negative). Determine whether to stop electrophoresis according to the migration of the tracking dyes.

4. Observation: Switch off the power source when the electrophoresis finishes. Visualize the band by using a gel documentation system and compare the size of the amplified product with that of Marker.

[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

[Company Information]

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