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Tris-glycine SDS-PAGE high-resolution rapid electrophoresis buffer

Product Number: S080097

Shipping and Storage

Transportation and storage at room temperature, with a shelf life of 24 months.

Component

Component	S080097
Tris-glycine SDS-PAGE high-resolution rapid electrophoresis buffer (Powder)	1L

Description

This product, Tris-glycine SDS-PAGE high-resolution rapid electrophoresis buffer (Powder), is optimized from the Tris-Glycine electrophoresis buffer and is suitable for SDS-PAGE gel electrophoresis in the Tris-Glycine system. Compared to traditional Tris-Glycine electrophoresis buffers, this product eliminates the need to adjust voltage for separating and stacking gels, allowing constant voltage electrophoresis at 200-250V throughout the process. Electrophoresis can be completed in approximately 30 minutes, significantly saving time. Additionally, it provides better separation for small-molecule proteins, enabling clear visualization of the 10kDa and 15kDa bands in pre-stained protein markers (at gel concentrations above 8%), achieving rapid and efficient protein separation.

Protocol

1. Dissolve each bag of electrophoresis buffer (dry powder) in 1000 mL of pure water and use it after sufficient dissolution;
2. Select different protein gel concentrations for different protein molecular weights, as shown in the table below:

SDS-PAGE separation gel concentration	Optimal separation range (kDa) (Tris glycine SDS-PAGE high-resolution rapid electrophoresis buffer)
6%	15-300
8%	10-250
10%	10-150
12%	8-100
15%	＜60

3. Whole process constant voltage electrophoresis, 200-250V, specific electrophoresis time as shown in the table below:

Voltage (V)	Estimated electrophoresis time (min)
200	35
220	30
250	25

Note

1. Please dissolve in pure water or distilled water and operate in a fume hood.
2. When the temperature is low, SDS may not dissolve completely and the solution may become turbid. Preheat to 37℃ until the solution is clear. Please use as soon as possible after dissolution.
3. This product is suitable for traditional Tris Glycine system protein gel electrophoresis.
4. High voltage electrophoresis can generate high heat, please choose the appropriate voltage electrophoresis according to the ambient temperature.
5. This electrophoresis solution can be reused 2-3 times, and it is not recommended to reuse it more times.
6. For your safety and health, please wear lab coats and disposable gloves when operating.

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