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Product No. 12981

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12981E\_1908\_2

## Rapid Running Buffer Solution (20×) for SDS-PAGE

This product is a running buffer for SDS-PAGE (Laemmli method).

## Features

- Short SDS-PAGE runs, even under low voltage.

- Wide-range separation: By replacing the standard Laemmli running buffer with this product, separation is improved in the low-MW range. Even using the same low-gel percent gel, you can get good results for high-MW samples using the standard Laemmli buffer, and sharp bands in the low-MW range using this product.

- Increase transfer efficiency in western blotting by using lower-percentage gel.
- Protocol

For SDS-PAGE with mini gel [8cm(H)×9cm(W)×1mm(T)]:

- 1. Prepare 1× solution according to the volume of the electrophoresis buffer chamber.
- The ratio of deionized water : 20× solution is 19 : 1.
- 2. Set the gel in the electrophoresis device and gently pour the 1× solution into the buffer chamber.
- 3. Set the voltage of the power supply. Use a constant voltage of 200-250V (see the table.1).
- 4. The rest of the protocol is the same as SDS-PAGE (Laemmli method).

Table 1. Effect of this product with Laemmli method gel:

Running buffer		This product (1×, 380mL)		Laemmli method (0.025mol/L-Tris, 0.192mol/L-Glycine, 0.1%SDS, 380mL)	
Gel (%)		8 %		12 %	
		Run time (minutes)	Temperature increase (C)	Run time (minutes)	Temperature increase (C)
Constant	200	34	21	59	20
voltage (V)	250	24	26	44	25
Separation $M.W.(KDa)$ $200\rightarrow$ $45\rightarrow$ $22\rightarrow$ $6.5\rightarrow$			M.W.(KDo 200- 45- 22-	$\rightarrow$	

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## Attention

- This product is a running buffer for SDS-PAGE, not for Native PAGE.
- Separation range becomes focused on lower MW when using this product instead of Laemmli running buffer. We recommend using a gel percentage that is 4% lower.
- Run time and temperature increase are affected by gel size, gel composition, volume of running buffer, temperature of running buffer, electrophoresis device, etc.
- Pre-stained protein markers may show a different molecular weight than their actual weight due to the dye.

## Reference

Laemmli, U.K. : Nature, 227, 680 (1970)

Storage

Room temperature

Expiration

Expiration date is stated on the product label.

Packing
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250 mL (Product No.12981-74)

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