

[Table 1] Protein Elution Buffer Compatibility

Buffer	Concentration	Labelling Efficiency
Tris	< 25 mM	100 %
	50 mM	78 %
	100 mM	55 %
Imidazole	< 25 mM	70 - 100 %
	50 mM	60 %
	100 mM	40 %
Glycine	50 mM	25 %
	100 mM	0 %
Urea	4 M	70 - 85 %
β-ME	10 mM	80 %
	20 mM	70 %
	50 mM	50 %
DTT	10 mM	80 %
	20 mM	70 %
	50 mM	50 %

**Expiration Date :**  
18 ~ 24°C (Room temperature)  
1 year

### Advantage

- Sample-loading buffer and protein stain in one.
- Post Staining : Gels can also be post stained with Quick Coomassie.
- Western blot : Visualize your protein transfer.
- Instant visualization of protein bands ; Quick 'Look and See' SDS-PAGE ; Plan and execute your next experiments quickly.
- Sensitive : Lower limit is 50 ng protein standard .
- Samples : Optimized for pure and partially-pure protein samples.

### Tip

- Solution may solidify and require warming(30 - 40°C for 30 - 60 sec) prior to use if stored at a lower temperature.

### Caution

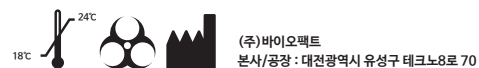
**It is important to check buffer compatibility prior to using the Real-Time Protein Sample Buffer as some buffers and components will affect the labelling efficiency (see Table 1).**

### Video clip



Please contact us,  
if you have any question and need help.

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- www.bio-ft.com
- info@bio-ft.com



### Related Products



• BioFACT™ Triple Color Protein Marker (10 ~ 180 kDa)  
[Cat. No. SM306-500]



• BioFACT™ Triple Color Protein Marker (10 ~ 245 kDa)  
[Cat. No. SM307-500]



• PS-300HC Universal Power Supply  
[Cat. No. PS-300HC]



• PS-600HC Universal Power Supply  
[Cat. No. PS-600HC]



• BioFACT™ Stacking Gel Dye for SDS-PAGE [Blue]. 40x  
[Cat. No. LD110-20h, LD110-810K]



• HiGene™ 10X SDS PAGE running buffer [PB151-10h]  
• HiGene™ Coomassie blue staining solution [PB152-10h]  
• HiGene™ Coomassie blue destaining solution [PB153-10h]

• BioFACT™ Stacking Gel Dye for SDS-PAGE [Green]. 40x  
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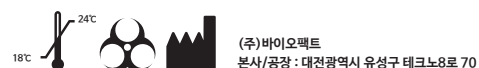
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# Quick Guide

Beyond the PCR technology,  
BIOFACT promises the progress for your research.



## BioFACT™ Real-Time Protein Sample Buffer for SDS-PAGE

[Cat. No. LD101-10h]

Contents	LD101-10h
BioFACT™ Real-Time Protein Sample Buffer for SDS-PAGE, 2X	1 mL x 1 ea (약100 샘플사용)

### Discription

BioFACT™ Real-Time Protein Sample Buffer is a sample-loading buffer and protein stain in one.

### Procedures

BioFACT™ Real-Time Protein Sample Buffer is formulated as a 2X stock solution, detailed protocols are provided for buffer compatibility test. **It is important to check buffer compatibility prior to using the Real-Time Protein Sample Buffer as some buffers and components will affect the labelling efficiency(see Table 1).**

If buffer compatibility testing shows labelling efficiency is unaffected then follow the standard protocol in accordance to the amount of reducing agent required adding Real-Time Protein Sample Buffer to your sample in a 1:1 ratio.

### Standard Protocol

- [Step 1.] Non-reducing
- 1) Add 10  $\mu$ l Real-Time Protein Sample Buffer to 10  $\mu$ l sample.
  - 2) Heat for 10 minutes at 100°C.

- [Step 2.] Optional for > 10 mM  $\beta$ -ME/DTT
- 3) Add required amount of reducing agent.  
- 2  $\mu$ l of 100 mM  $\beta$ -ME/DTT final concentration 10 mM
  - 4) Heat for additional 3 minutes at 100°C.

[Step 3.] Load and run Sample

- 5) Load 10  $\mu$ l on to SDS - PAGE gel.

### Note

- Labelling efficiency can be optimized by varying the time and temperature of [Step-1] if required.
- Gels can also be post-staining with Coomassie Brilliant Blue, if required
- Protein Sample : 1X PBS ( recommend )

### Imaging

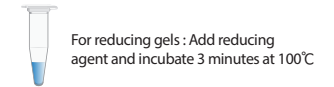
- Real-Time Protein Sample Buffer results in blue protein bands on a transparent background. The gel may be imaged using a white-light transilluminator.

### Quick Protocol

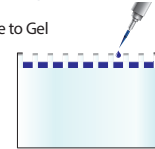
- Step 1)** Mix sample 10  $\mu$ l and Real-Time Protein Sample Buffer 10  $\mu$ l.



- Step 2)** Incubate 10 minutes at 100°C



- Step 3)** Load sample to Gel



- Step 4)** Visualize your bands during electrophoresis : instantly see your results in real time while the gel is running.



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2024. 02. 01 (설명서 개정일)

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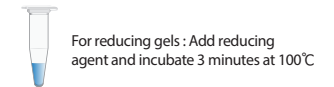
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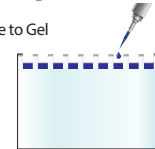
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