

CosmoPAGE TG Precast Gel - Tris-glycine gel, 15 wells –

10 %, Cat. No. NU001015 4-15 %, Cat. No. NU041515

Introduction

CosmoPAGE TG Precast Gels (Tris-Glycine) are ready-to-use acrylamide gels for SDS-PAGE running in Tris-Glycine buffer system. With unique formula, CosmoPAGE TG Precast Gels perform enhanced resolution, sharper bands, and longer shelf life as compared with conventional Laemmli Tris-HCl gels. The protein migration patterns in CosmoPAGE TG series, however, are similar with typical Laemmli Tris-HCl gels, and thus CosmoPAGE TG Precast Gels are compatible to traditional SDS-PAGE and subsequent analyses.

CosmoPAGE TG Precast Gels are available in gradient (4 to 15%) and fixed (10%) concentrations of polyacrylamide in 15-well formats.

Product Information

| Product | Cat. No. | Gel%/#ofwell | QTY |
|--------------|----------|---------------------|---------|
| CosmoPAGE TG | NU001015 | 10 % / 15 wells | 10 gels |
| Precast Gel | | | |
| CosmoPAGE TG | NU041515 | 4 - 15 % / 15 wells | 10 gels |
| Precast Gel | | | |

Storage

4°C

Shelf Life

12 months

Features

- Compatible with Bio-Rad Mini-PROTEAN® CORE
- No combs and tape
- Sharp, straight bands
- Numbered well; loading volume up to 28 µl/wells

Procedures

Running Buffer

Prepare 10X stock running buffer with the following recipe: Tris base 30.0 g, Glycine 144.0 g, SDS 10.0 g. Deionized water to 1000 ml. Dilute to 1X for use*

*Always use fresh 1X running

Sample Preparation

Mix sample with 2X sample buffer. Heat the diluted samples at 90-95°C for 5 min.

Recipe of 2X sample buffer with reducing agents:

62.5 mM Tris-HCl pH 6.8, 2% SDS, 25% (v/v) glycerol, 0.01% bromophenol blue, and 100 mM DTT (or 5% β-mercaptoethanol) as reducing agent.

Setting CosmoPAGE Precast Gel into Bio-Rad Mini-PROTEAN® Core

Totally the same way to place CosmoPAGE precast gels and Bio-Rad Mini-PROTEAN gels; no adaptors required.

Running Conditions

| | 100 V | 150 V | 200 V |
|-----------------|----------|----------|------------|
| Running time | 90 min. | 60 min. | 35 min. |
| Current | | | |
| Initial per gel | 15-20 mA | 50-60 mA | 100-110 mA |
| Final per gel | 5-10 mA | 20-30 mA | 30-40 mA |
| TEMP. | 25°C | 25-35°C | 25-35°C |

Running time might vary depending on power supply and the temperature of gel, running buffer and lab.

Gel Migration chart

| | | TG | gel | Bis-Tris gel | | | | |
|-----------------|--|------------------------------|------------------------------------|---|---|------------------------------------|---|--|
| | | 10 % 4 -15 % | | 12 % | | 4 – 12 % | | |
| | 0 | ТG | TG | MOPS | MES | MOPS | MES | |
| % length of gel | 10 20 30 40 50 60 70 80 | 200 116 66 45 31 | 200 116 66 45 31 21 | 200 1116 66 45 31 21 14 | 200 116 66 45 31 21 14 6 | 200 115 66 45 31 21 | 200 116 66 45 31 21 14 6 | |
| | 90 100 | - 21 | — ¹⁴ 5 | 6 | | - 14 | | |

Migration patterns of Unstained Protein Markers (#29458-24)

Gel staining

- 1. Insert a cassette opener into four corners of cassettes.
- Carefully pry but not twist the opener to separate two plates.
- 3. Gently remove the gel from the plate.
- Follow a procedure of most popular staining methods, such as Coomassie dyes (R-250 or G-250), Silver-stain solution, and fluorescent.

Gel blotting

Follow the general guidelines for your blotting apparatus; compatible to wet, semi-dry, or dry transferred to PVDF or nitrocellulose membrane.

Technical Support

E-mail: info@nacalaiusa.com Website: www.nacalaiusa.com

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