

## Quick Protein Gel Drying Solution (PD-001)

### Product Information:

**Contents:** 1x Gel Drying Solution (250mL).

**Catalog Number:** PD-001.

**Storage Condition:** Stored at Room Temperature:

**For research use only**

### Description:

An innovative gel-dry solution allows the polyacrylamide gel shrinking uniformly and drying evenly without cracking.  
An innovative gel-dry solution allows cellophane sheets to be peeled off if necessary to expose the radiolabeled gels to X-ray film.

### Key features:

- **Higher sensitivity** - approximately 1-10ng of protein detected per band.
- **Non-toxic** - ideal for regular disposal, fluorography, densitometry, autoradiography, or permanent gel storage.

### Procedure:

#### **Polyacrylamide Gel Drying Protocol:**

1. Place the mini-gel directly into a clean petri dish (10cm<sup>2</sup>) or a container fitted the gel size.
2. Add enough 1x Gel Drying Solution to cover the gel.  
**Note:** For 8 x 10 cm mini- gel use approximately 25-30ml of Gel Drying Solution.
3. Shaking gently on a shaker for 5-10 minutes.  
**Note 1:** Gel might shrink uniformly (without cracking) by a factor of about 30-50%.  
**Note 2:** Do not incubate gels in gel drying solution for more than 20 minutes as the stained bands may fade.
4. Discard the gel drying solution and cover the gel with a hard surface (a small petri dish or a glass plate) with light pressure on the gel surfaces **or** wrap the gel with two pieces of cellophane sheets to avoid curing during air-dry.
5. Place in hood for air drying around 15-20 minutes **or** on bench for 1-2 hours **or** heat vacuum for 5-10 minutes and the gel is ready for storage.  
**Note 1:** Drying will take longer depending on humidity and gel thickness.  
**Note 2:** The temperature of the dried gel should be the same as the temperature of the surrounding gel drying surface. If the temperature of the dried gel is cooler, then the gel is not completely dried.  
**Note 3:** Check for moisture in the tubing connecting the gel dryer to the vacuum pump. The gel is not completely dried if there is any residual moisture in the tubing and additional drying time is required.  
**Note 4:** Wrap the dried gel with two pieces of cellophane sheets/plastic bags or one side with a filter paper, another side with a clear hard film. Press the dried gel(s) between the pages of a notebook under light pressure for gel storage.
6. Photograph the dried-stained gel(s) or expose the radiolabeled gel(s) with X-ray film.  
**Note:** After drying the gel, the hard surface (the petri-dish cover, plastic film or cellophane) from one side of the gel can be removed or peeled off to expose the gel with the autoradiography film.

### Figure:

**(A) Before drying**



**(B) After gel drying:**



(B) shows the intensity of the stained protein bands was enhanced, and gel shrinking uniformly (without cracking) by a factor of 35-50%.

### Precautions and Disclaimer:

This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

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