

## Investigator™ Pre-Cast Molecular Weight Markers for 2-D (#0070-3512)

These pre-cast markers were developed to allow tracking of molecular weights on 2-D gels. The pre-cast mini tube gels contain approximately 1.2 µg total protein for a final concentration of 0.1 µg per band. Following electrophoresis, the bands may be visualized with Coomassie® Brilliant Blue\* (#0080-0216), Silver Stain (#0080-0183), or SYPRO™ Ruby (#0070-3995).

The pre-cast markers are supplied as 1 mm inner diameter x 1 cm long tube gels. The gels are cast with a mixture containing Duracryl™ (high-tensile strength acrylamide), urea, Triton X-100, SDS, bromophenol blue and marker proteins. To load the markers onto a 2-D gel, simply grasp one gel\* with tweezers and place at one edge of the 2-D gel, next to the 1-D tube gel or IPG strip. Using a spatula, push the gel down onto the surface of the 2-D gel. Ensure that no bubbles are trapped between the marker gel and 2-D gel.

*\*Use two gels if staining with Coomassie. Place one on top of the other ensuring no bubbles are trapped in between.*

### Shelf life:

- Storage (1 week or less): 4°C
- Storage (long term): -20°C (let thaw at room temperature 5-10 minutes prior to use)
- Stability: 1 year at -20°C

Duracryl is compatible with standard mass-spectrometry processing protocols.

<b>Protein</b>	<b>Molecular Weight (Daltons)</b>
Myosin	205,000
β-Galactosidase	116,000
Phosphorylase b	97,000
Transferrin	81,000
BSA	66,000
Glutamate dehydrogenase	55,000
Ovalbumin	45,000
Carbonic anhydrase	30,000
Trypsin inhibitor	21,000
Lysozyme	14,000
Aprotinin	6,500