

#### INSTRUCTIONS

# Adar's Biotinylated Protein Size-Markers

(Cat. 1029-0.2/0.5/1.0)

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### Introduction

Polyacrylamide gel electrophoresis (PAGE) has proven to be a useful tool for the separation of protein subunits and the determination of their molecular masses. Adar's Biotinylated Protein Size-Markers enables detection of size markers through biotin. For example HRP-Streptavidin may be used for the detection of the marker bands on blot or on film. The proteins included in Adar's Biotinylated Protein Size-Markers provide a suitable molecular mass range for most applications. Staining markers with Brilliant Blue R stain is possible. Protein bands are approximately equal in color intensity.

Table 1. Protein mixture composition

Protein	MW (approximate)
Myosin, porcine	200,000
β-Galactosidase, from E. coli	116,000
Phosphorylase b, from rabbit muscle	97,000
Albumin, bovine	66,000
Albumin, from chicken egg white (Ovalbumin)	45,000
Carbonic Anhydrase, from bovine erythrocytes	29,000

Storage buffer: PBS pH 7.5 Storage condition: -20°C.

### A. Using Adar's Biotinylated Protein Size-Markers.

1. Thaw vial, tap few times to mix content and remove approximately 5 ul of content to clean microtube. Process Size-Markers sample as other protein containing samples by adding sample buffer (typical sample buffer: 62.5 mM Tris

HCl, pH 6.8, containing 2% SDS, 5% 2-mercaptoethanol, 10% glycerol, and 0.002% bromophenol blue).

**2.** Incubate all samples in a boiling water bath for 1 minute and immediately load on gel.

## **B.** Storage

Keep Adar's Biotinylated Protein Size-Markers frozen between uses.