INSTRUCTIONS

Immobilized *p*-Aminophenyl Phosphoryl Choline Gel

20307

1156.4

Number	Description
20307	**Immobilized *p*-Aminophenyl Phosphoryl Choline Gel,** 5mL Support: Crosslinked 6% beaded agarose Binding Capacity: ≥ 3mg of human C-reactive protein per milliliter of gel **Storage:** Upon receipt store at 4°C. Product is shipped at ambient temperature.

Introduction

Within the ascites fluid of humans and rabbits exist several different types of immunological proteins that provide aid during an inflammatory response. One of these proteins is the C-reactive protein that has been linked to several biological functions including activation of the classical complement pathway, enhancement of phagocytosis and interaction with certain subpopulations of T-lymphocytes. In the late 1970s, Volanakis and colleagues discovered a method of isolating and studying C-reactive protein using the protein's affinity for phosphoryl choline.[1] Thermo Scientific Immobilized p-Aminophenyl Phosphoryl Choline Gel enables purification of C-reactive protein in a convenient column format that is quick and easy to use.

Additional Materials Required

- Sample purified from ascites fluid by centrifugation and filtration
- Binding Buffer: 0.1M Tris or Borate Buffer, 0.1-0.2M NaCl, 1-2mM $CaCl_2$; pH 8-8.5
- Elution Buffer: 0.1M Tris or Borate Buffer, 0.1-0.2M NaCl, 2mM EDTA; pH 8-8.5
- Storage Buffer: 0.01M sodium phosphate, 0.09M NaCl

Procedure for C-reactive Protein Purification

1. Prepare a 5mL column by packing gel into a disposable column.
2. Equilibrate column by applying two column volumes of Binding Buffer.
3. Add 2-3mL of purified sample to column.
4. Incubate for 1 hour at room temperature.
5. Wash with 5 column volumes of Binding Buffer.
6. Elute bound protein with Elution Buffer. Collect fractions in 0.5mL aliquots.
7. After elution, micro-concentrate the protein and dialyze into the Storage Buffer.

Cited Reference

1. Volanakis, J.E. *et al.* (1978). C-reactive protein: Purification by affinity chromatography and physicochemical characterization. *J Immunol Meth* **23:**285-95.

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