

MicroProtein Technologies, Inc.

Technical Data Sheet

Purified Protein A

Catalog Number:	A100B1G
Description:	Purified Protein A is a highly stable cell surface receptor produced by several strains of <i>Staphylococcus aureus</i> . It is made up of a single polypeptide chain containing five Ig-binding regions.
Source:	<i>Escherichia coli</i>
Molecular Weight:	35,000 Da
Quantity:	20mg/150mg/1gram
Purity:	>97% by SDS-PAGE and HPLC analyses.
Formulation:	Lyophilized in salt free water.
Biological Activity:	<ol style="list-style-type: none">1. Purified Protein A is ideal for purification of polyclonal or monoclonal IgG antibodies.2. Purified Protein A binds to most human and mouse IgG subclasses (e.g. human cow, guinea pig, hamster, horse, pig, and rabbit. Protein A has little affinity to chicken IgY.
Applications:	Lyophilized from salt free water. Purified protein A may be conjugated with various reporter molecules, including fluorescent dyes (FITC), enzyme markers (peroxidase, β -galactosidase, alkaline phosphatase), biotin, and colloidal gold. These conjugates can be used to detect immunoglobulins in various immunochemical assays including Western blotting, immunohistochemistry, and ELISA applications. In addition, purified protein A may be immobilized on a solid support such as agarose or acrylic beads to purify polyclonal/monoclonal immunoglobins. It can be also used in immunoprecipitation assays. Caustic tolerance (0.1 -0.5N NaOH) in specific use.
Reconstitution:	Dissolve in deionized/distilled water or buffer.
Storage:	2 years at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
Usage:	This material is offered by MicroProtein Technologies, Inc. for research, laboratory or further evaluation purposes and bio processing use.

