

AFFINITY SORBENT FOR PURIFICATION OF ANTIBODIES

Areas of Application

The affinity medium based on oriented immobilized recombinant protein A *Staphylococcus aureus* can be used at research institutes and diagnostic labs for purification of monoclonal and polyclonal antibodies from ascites, serum, and cell culture supernatants; for fractionation of IgG into subclasses; and for isolation of antibody/antigen complexes in immunoprecipitation experiments

Specification

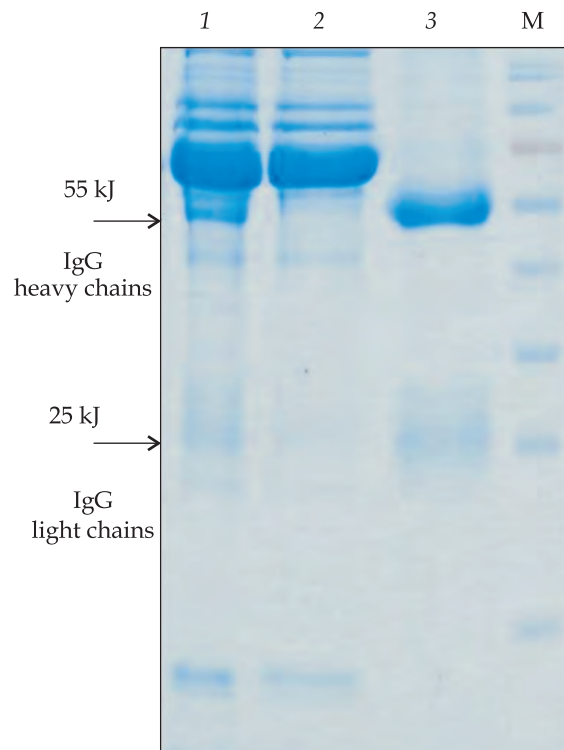
The affinity sorbent based on microcrystalline cellulose CC31 with immobilized recombinant protein A *Staphylococcus aureus* in the form of 50% suspension in 20% ethanol; particle size: ~60–75 μm; ligand density: ~1.5–2.0 mg ligand/ml sorbent

Advantages

The use of affinity medium enables a single-stage purification of antibodies. The cost of proposed affinity medium is lower as compared with that of the analogs

IPR Protection

IPR1, IPR2



Electrophoregram of rabbit IgG purified by affinity sorbent: 1 – serum proteins loaded to the column; 2 – proteins unbound to the column; 3 – purified IgG eluted from the column; M is molecular weight marker

Stage of Development.

Suggestion for Commercialization

IRL3, TRL3

Affinity medium sample and protocol for antibody purification provided upon request. After tests, the offering can be proposed to manufacturers and suppliers of laboratory equipment, reagents, and materials

Contact Information

Oksana B. Gorbatiuk, Institute of Molecular Biology and Genetics of the NAS of Ukraine; +38 044 526 92 45, e-mail: gorbatiuk@gmail.com