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InnoCyto Inc.

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Protein A resin

Catalog Number: 700201, 700202, 700203, 700204

Size: 1mL, 10mL, 50mL, 200mL

PRODUCT DETAILS

Application: Purification of IgG or Fc-tagged recombinant proteins

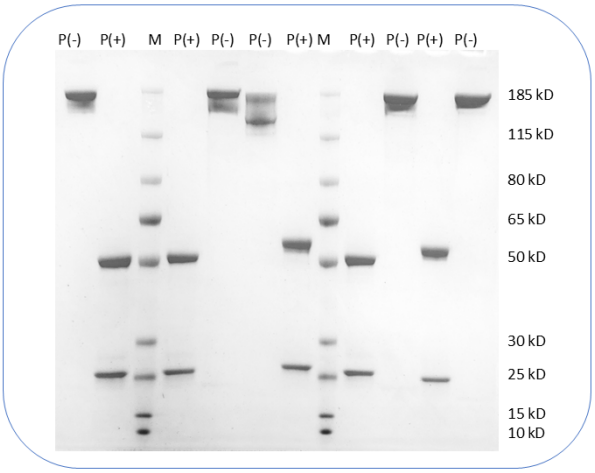
Product Description: Cross-linked agarose conjugated with recombinant Protein A. The resin is supplied as a 50% slurry in PBS containing 20% ethanol.

User Manual: Protein A Resin Application Guidelines (PDF)

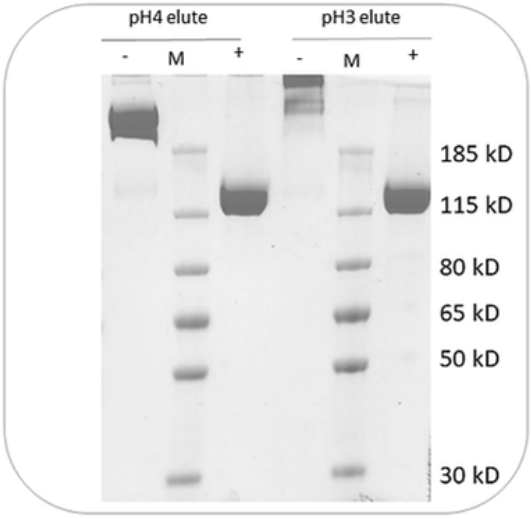
Storage and Handling: Store the vial at 4°C (DO NOT FREEZE). The unopened vial is stable for twelve months when stored at 4°C.

Recommended Usage: This cross-linked agarose resin conjugated with recombinant Protein A is suitable for the purification of IgG antibodies or Fc-tagged recombinant proteins using either batch or column methods. It can also be used for immunoprecipitation. Chemical stability: 0.5M NaOH, 6M guanidine hydrochloride, 20% ethanol, 8M urea, commonly used aqueous buffers for protein A purification.

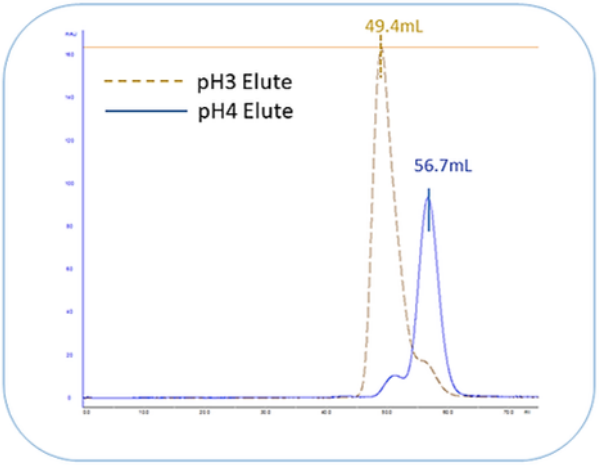
PRODUCT DATA



Five different antibodies—including mouse IgG2b, rabbit IgG, and human IgG1—were purified using a one-step Protein A resin protocol. The resulting purity exceeded 95% following this single-step purification.



An Fc-tagged recombinant protein was purified using Protein A resin and sequentially eluted with 0.1 M citric acid at pH 4.0 and pH 3.0. The eluted fractions were analyzed by SDS-PAGE under reducing (+) and non-reducing (-) conditions. The pH 3.0 eluate predominantly contained aggregated protein, whereas the pH 4.0 eluate primarily contained the expected dimeric form.



An Fc-tagged recombinant protein was purified using Protein A resin and sequentially eluted with 0.1 M citric acid at pH 4.0 and pH 3.0. The eluted fractions were analyzed by analytical SEC (superdex 200) on FPLC. The pH 3.0 eluate predominantly contained aggregated protein (>90% by integrated peak area), whereas the pH 4.0 eluate primarily contained the expected dimeric form (>90% by integrated peak area).

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