



For Research



# Affinity resin for antibody purification

Instruction Manual (Version 1)

Bipo Resin Protein A (Alkaline Resistance)	Code; AAR-025
Bipo Resin Protein A (Weak Acid)	Code; AWA-025
Bipo Resin Protein L (Alkaline Resistance)	Code; LAR-025
Bipo Resin Protein G (Alkaline Resistance)	Code; GAR-025

For research purposes only.  
Before using this product, please read carefully this instruction manual.



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## Resins for antibody purification

### 1. Introduction

Protein A (*Staphylococcus aureus*), Protein L (*Finnegoldia magna*), Protein G (group G streptococci) are known as affinity molecules to antibodies. We developed affinity resin for antibody purification using these affinity molecules.

Product name	Note	maximum binding capacity (mg/mL-resin)
Bipo Resin Protein A (Alkaline Resistance)	Alkaline Resistance	28 (human IgG)
Bipo Resin Protein A (Weak Acid)	mild elution (pH3.5-4.5)	31 (human IgG)
Bipo Resin Protein L (Alkaline Resistance)	Alkaline Resistance	13 (human IgG) 1.2 (scFv)
Bipo Resin Protein G (Alkaline Resistance)	Alkaline Resistance	26 (human IgG)

### 2. Product information

Use for purification of antibodies, small molecule antibodies (Fab, scFv), and immunoprecipitation.

25mL resin in 20% EtOH (50% slurry) (average particle size; 60 $\mu$ m)

Storage at 4 $^{\circ}$ C

### 3. Antibody Purification Procedure

<Additional materials required>

- Empty spin column
- Binding buffer (PBS)
- Elution buffer (0.1M Glycine, pH2.5)\*
- Neutralization buffer (1.0M Tris, pH9)

\*In the case of Bipo Resin ProteinA(Weak Acid), you can use 0.1 M citrate, pH3.5-4.5 as an elution buffer.

1) Equilibrate the resin

Transfer resin (100 $\mu$ L) to empty column (column volume; 500 $\mu$ L). Centrifuge (3,000xg,



## Resins for antibody purification

1min.) and discard the eluate. Add deionized water (400 $\mu$ L) to the column and centrifuge twice. Add PBS (400 $\mu$ L) to the column and centrifuge twice.

### 2) Purification

Transfer sample to column and incubate for 5min at room temperature and centrifuge. Add PBS (400 $\mu$ L) to the column and centrifuge three times. Add elution buffer (100 $\mu$ L) to the column and for 1-2min at room temperature and centrifuge twice. Add 5 $\mu$ L of neutralization buffer to each eluate.

### 4. Clean-up the resin

Resins can be clean up by described conditions.

Bipo Resin Protein A (Alkaline Resistance)	100 mM NaOH、	10min.
Bipo Resin Protein A (Weak Acid)	100 mM NaOH、	10min.
Bipo Resin Protein L (Alkaline Resistance)	15 mM NaOH、	10min.
Bipo Resin Protein G (Alkaline Resistance)	50 mM NaOH、	10min.

Note) After clean up, NaOH is replaced to deionized water and 20% EtOH immediately. And store at 4°C.



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