

# Affinity Chromatography Resins

Simplify Your Purification Task



## Highlights

- High binding capacity with ultra-low nonspecific binding
- Fast and simple procedures for batch or gravity-flow operation
- Compatible with a variety of sample formats and buffer additives
- Increased cost-effectiveness benefiting from excellent recyclability



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 **GenScript**  
Make Research Easy

## Protein A, G and L Resins for Antibody Purification

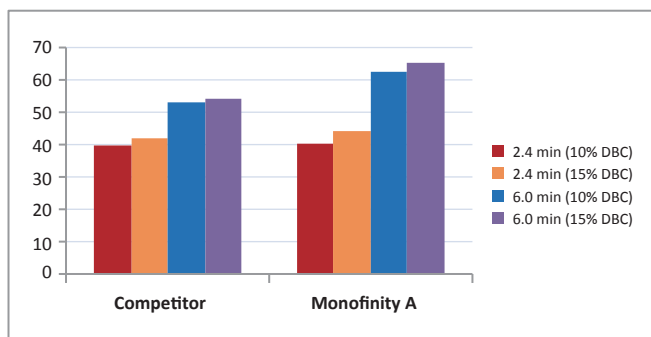
GenScript provides an easy, one-step purification choice for polyclonal and monoclonal antibodies from cell culture supernatant, serum, or ascites fluid for laboratory research or on a larger, higher volume for production-based scale.

### High Binding Capacity

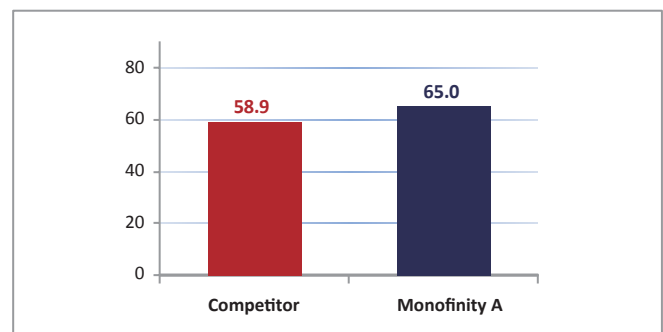
Binding capacity of Genscript protein A resins is higher than that, regarding both DBC<sub>10%</sub> and SBC, of major competitors in the market.

For example: The DBC<sub>10%</sub> of Genscript's Monofinity A resin is up to 40 mg/mL (human IgGs) with RT=2.4 min and up to 65 mg/mL (human IgGs) with RT = 6.0 min.

DBC (mg/ml) Comparison



SBC (mg/ml) Comparison



### Selection Guide of Protein A, G and L Resins

	Monofinity A	Protein A Resin	Ultra Protein A Resin	Protein A Resin FF	Protein G Resin	Protein L Resin
Binding Capacity	> 50 mg h IgG/ml resin	> 20 mg rabbit IgG/ml resin	30 - 40 mg h IgG /ml settled resin	> 40 mg rabbit IgG/ml settled resin	>20 mg sheep IgG/ml settled resin	>15 mg rabbit Ig/ml settled resin
Matrix	Highly-cross-linked 4% beaded agarose	Agarose, 4% cross-linked	Agarose, 4% cross-linked	Agarose, 4% cross-linked	Agarose, 4% cross-linked	Agarose, 4% cross-linked
Ligand	Alkali-Tolerant Protein A	Recombinant Streptococcal protein A expressed in <i>E. coli</i>	Recombinant Streptococcal protein A expressed in <i>E. coli</i>	Recombinant Streptococcal protein A expressed in <i>E. coli</i>	Recombinant Streptococcal Protein G lacking the albumin-binding produced in <i>E. coli</i>	Highly purified protein L
Chemical Stability	Stable with all commonly used reagents during the purification process	No significant change in chromatographic performance after 1 week storage using 8 M urea, 6 M gua-HCl, 2% benzyl alcohol or 20% ethanol	No significant change in chromatographic performance after 1 week storage using 8 M urea, 6 M gua-HCl, 2% benzyl alcohol or 20% ethanol	No significant change in chromatographic performance after 1 week storage using 8 M urea, 6 M gua-HCl, 2% benzyl alcohol or 20% ethanol	All commonly used aqueous buffers and denaturants such as 6 M guanidine hydrochloride and 8 M urea, and chaotropic salts such as 3 M sodium isothiocyanate.	All commonly used aqueous buffers, e.g., 15 mM sodium hydroxide, 8 M urea, 6 M guanidine hydrochloride, 1 M acetic acid
Linear flow velocity	50-300 cm/h	50-300 cm/h	50-300 cm/h	50-300 cm/h	50-300 cm/h	50-300 cm/h

For more details about Genscript Affinity Chromatography Resins, please visit:

[http://www.genscript.com/protein\\_purification\\_resins.html](http://www.genscript.com/protein_purification_resins.html)



[www.genscript.com](http://www.genscript.com)