

Multiple Affinity Removal System

Charting New Territories in Proteomics



Don't miss out!

Your colleagues are using this technology now.



Another Breakthrough Technology from Agilent

The Agilent Multiple Affinity Removal System helps to unlock the potential of the human and mouse serum proteome for biomarker or drug target discovery applications **in less than 30 minutes**.

Biochemists working with human or mouse serum or plasma samples are challenged with identifying proteins or peptides often masked by high-abundance proteins of limited interest.

The Agilent Multiple Affinity Removal System's unique liquid chromatography-style columns and method enable automated sample preparation, letting you now **remove multiple targeted high-abundance proteins at one time**.

With the Agilent Multiple Affinity Removal System for liquid chromatography, you can:

- Remove three (mouse) or six (human) unwanted, highly abundant proteins simultaneously with these columns. This eliminates the masking effect of highly abundant proteins in serum, plasma, or CSF samples (and more) so that you can easily detect lower-abundant proteins and peptides.
- Re-use columns for at least 200 injections, for a lower cost per analysis.
- Minimize sample loss by using just one column to remove the interfering proteins.
- Improve results of protein separation methods such as 1DGE, 2DGE and LC/MS.
- Obtain the lowest non-specific protein binding with highest process efficiency and specificity for immunodepletion.
- Expand the dynamic range of current LC/MS and electrophoretic analytical methods.
- Use columns, pre-made optimized buffers, and a simple LC method to get started in biomarker discovery today.



Multiple Affinity Removal Column



H High Abundant Proteins (Human: Albumin, IgG, IgA, Transferrin, Haptoglobin, Antitrypsin; Mouse: Albumin, IgG, Transferrin)

L Low-Abundant Proteins (Biomarkers for disease and drug targets)

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Agilent Technologies

Six highly abundant proteins that you can remove from human serum simultaneously for unmatched efficiency (Hu-6):

- Albumin
- IgG
- Antitrypsin
- IgA
- Transferrin
- Haptoglobin

Three highly abundant proteins that you can remove from mouse serum (Ms-3):

- Albumin
- IgG
- Transferrin

These proteins cover 80 to 90 percent of total serum protein mass. Removing them **allows you to load up to 10 times more low-abundant protein mass** onto gels or LC/MS for analysis.

Note: Use human protein removal columns for monkey serum, and mouse protein removal columns for rat serum, too!

Your proteomics colleagues are finding out the benefits of the Multiple Affinity Removal System. For ordering information, see the order guide at the right.

Agilent provides innovative technologies, solutions and services to help you make your own breakthroughs.

Automated, Integrated Solution for Ease of Use

The Multiple Affinity Removal System works with any LC or HPLC system. For an efficient system that gives you optimum performance, combine it with the Agilent 1100 Series LC, autosampler, and Agilent software. The result? An automated, integrated system that improves workflow by increasing ease of use, speeding analysis time, and reducing analytical costs.

Want more information?

- Visit www.agilent.com/chem/bioreagents for more information about this breakthrough system and to learn about our other products that will make your proteomics research more efficient.
- Or call your local authorized Agilent distributor.

Agilent Multiple Affinity Removal System Order Guide

Description	Agilent Part Number
Multiple Affinity Column, 4.6 x 50 mm Hu-6 15-20 µL human serum capacity per injection*	5185-5984
Multiple Affinity Column, 4.6 x 100 mm Hu-6 30-40 µL human serum capacity per injection*	5185-5985
Multiple Affinity Column, 4.6 x 50 mm Ms-3 37-50 µL mouse serum capacity per injection*	5188-5217
Multiple Affinity Column, 4.6 x 100 mm Ms-3 75-100 µL mouse serum capacity per injection*	5188-5218
Larger Multiple Affinity Removal Columns	Inquire at affinity_removal@agilent.com
Starter Reagent Kit Includes: 2 bottles Buffer A, 1 bottle Buffer B, 2 packs of 25 spin filters, 1 pack of 25 spin concentrators	5185-5986
Buffer A, 1 L for loading, washing, equilibrating	5185-5987
Buffer B, 1 L for eluting	5185-5988
Human Serum Albumin dilute standard (1 mL, 20 mg/mL)	5185-5989
Spin filters, 0.22 µm for sample pre-cleanup, cellulose acetate, 25/pk	5185-5990
Spin concentrators, 5K MWCO, 4 mL, to concentrate proteins, 25/pk	5185-5991
Replacement PEEK fritted end-fittings, 1 each	5185-5995

*Order Starter Reagent Kit or Buffers A and B when purchasing a column. Columns should only be used with Buffers A and B. Human protein removal columns are not recommended for mouse serum and vice versa. Capacities for various mouse strains can vary.



Visit www.agilent.com/chem/bioreagents and you can start identifying potential protein biomarkers today, free of interferences.

Your proteomics colleagues are using it; why don't you?

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