

AppliChrom® ABOA-ProteSep S-L 5μ

***AppliChrom® chromatography columns
for high efficient size exclusion chromatography (SEC)
separations of biopolymers
(especially sugars, proteins and immunoglobulins)***

HPLC columns are designed for the fast and accurate SEC/GPC separation of proteins, immunoglobulins and polymeric sugars in the range of 5.000 to 1.200.000D.

The special designed 5μ particles with their proprietary pore openings and structure secure good pore accessibility for the analytes from smaller biopolymers (e.g. vitamin B12) up to very large biopolymers (e.g. oligomers and complexes of immunoglobulins). This leads to a really good chromatographic kinetic, resulting in fast analytical separations combined with a really high resolution of analytes that are separated according to the SEC resp. GPC mechanism.

The columns are designed in a way, that they fit to standard HPLC Systems (connected with the standard 10/32er fittings on 1/16'' tubes).

High pressure stability of 300bar allow relatively high linear flow rates resulting in short analysis times of e.g. 10-20min for a 300x8mm column at 1.0 - 0.5ml/min. The chromatographic base material is a rigid inorganic special designed network that does not swell or shrink on changing the eluent from water to organics (e.g. DMSO or THF).

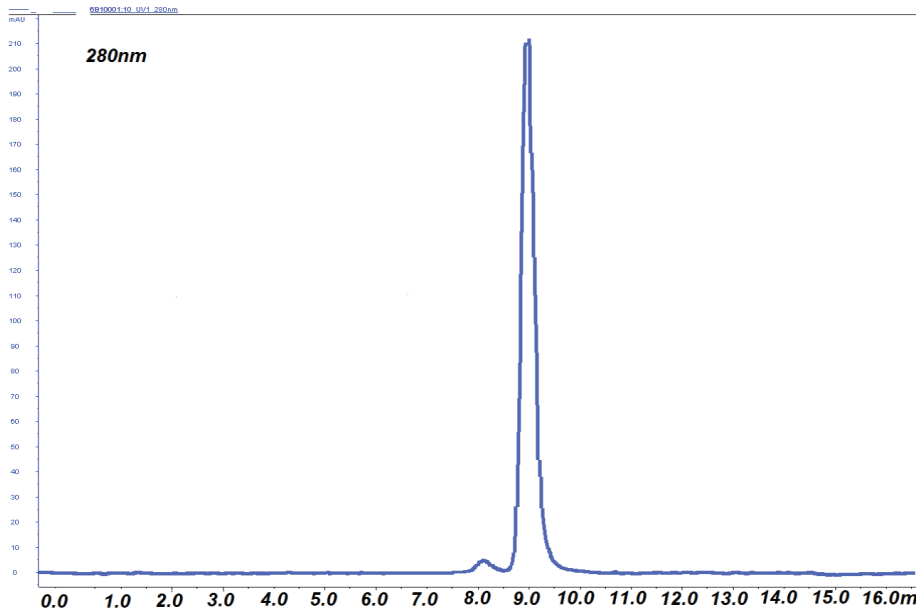
Recommended solvents are aqueous, buffered between pH 3 and 7.5.

Depending on molecules that must be separated it can be recommended to increase the ionic strength by adding salts to the solvent or to add organic modifiers like MeOH or ACN (10-30%).

The advantageous combination properties of the ***AppliChrom® ABOA ProteSep S-L*** packing material (high pressure stability, no swelling/shrinking with organic solvents) allows the user to clean the column after long time use from adsorbed impurities by using organic solvents like DMSO or THF. By these properties the lifetime can be extra-increased – what means an additional saving of money for the user.

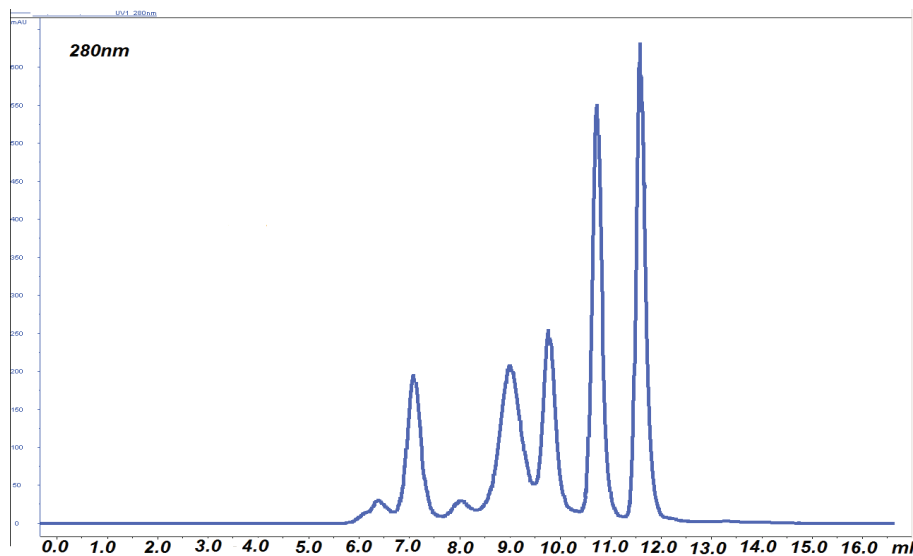
AppliChrom ABOA ProteSep S-L columns –
the choice for your biopolymer separation (5.000-1.200.000D).

- high resolution
- cost efficient
- accurate



IgG Monomer 150kD

IgG Dimer 300kD



Thyroglobulin (bovine) 670.000

γ-Globulin (bovine) 158.000

Ovalbumin (chicken) 44.000

Myoglobin (horse) 17.000

Vitamin B12 1.350

Conditions: Buffer 0.05 M Na₂HPO₄, 0.05 M NaH₂PO₄, 0.15 M NaCl, pH 6.8
 AppliChrom ABOA ProteSep S-L Column 300 x 8 mm (SAP-S-L 3008)
 Flow rate 1.0 ml/min, Sample 20 µl, Detection UV @ 280 nm; 1.0 AUFS

Column dimension	Order number
8 x 250mm	SAP-S-L 2508
8 x 300mm	SAP-S-L 3008
20 x 250mm	SAP-S-L 25020
20 x 300mm	SAP-S-L 30020

Precolumns or other dimensions also available – please ask for your personal quotation

For additional information concerning techniques, delivery times or for finding your distributor – please write a mail to info@applichrom.de.

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 autorisierter Partner mit
 Sitz in Bayern

