Uptisphere® Protein A HPLC Columns

Uptisphere® Protein A HPLC columns combine the pressure benefits associated with HPLC and a silica based stationary phase with the affinity binding characteristics of Protein A. These columns can generally run on HPLC apparatus up to flow rates of 720 cm /hr compared to classical Protein A agarose based affinity columns that work up to flow rates of 50 -to 60 cm /hr.

Uptisphere® Protein A bonded silica is generally used for Immunglobulin purification from research to process scale.

- No issues of swelling
- High mechanical stability
- Thermal stability
- Compatible with water and organic solvents
- High capacity at high flow velocities

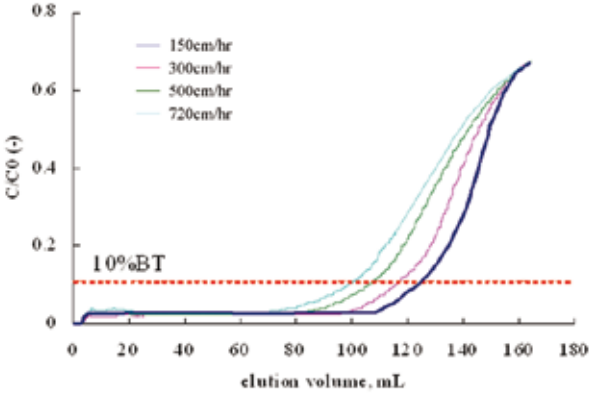
The protein A binding level is reproducible from batch to batch due to the highly spherical silica, granulometry and strictly defined porosity.
The large porosity is ideal for the purification of any kind of immunoglobulins. Large immunoglobulins can still enter the silica beads and make contact with Protein A :

- Binding capacity : 45 mg /ml
- Protein recovery : 98 - 100 %

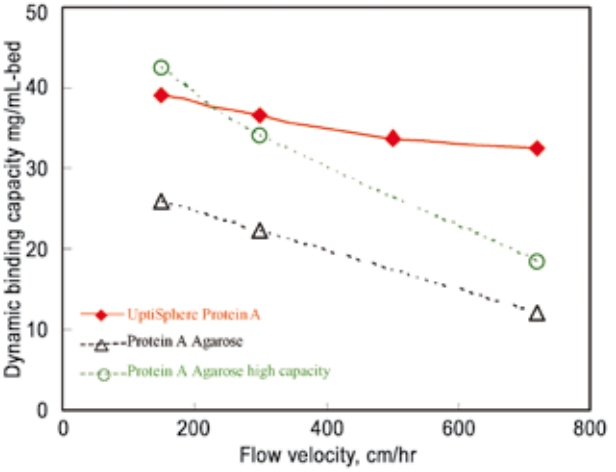
Immunoglobulin binding capacity is flow rate independent. Uptisphere® Protein A is an excellent support for the research bench-top to scale up.

- Usage : minimum 50x.
- Washing : NaOH 1N

Storage : 4°C in 20% ethanol.



Breakthrough curves of Uptisphere Protein A affinity at column height of 10cm



Comparison of dynamic binding capacities at 10%BT with standard ProteinA media.

Silica features

- Spherical beads
- High purity
- Strictly defined porosity
- Strictly controlled granulometry
- High chemical and mechanical stability

Description	Dimension	P/N
Uptisphere® Protein A	50 x 2.1 mm	**UPPROTA#5P**
Uptisphere® Protein A	50 x 4.6 mm	**UPPROTA-5P**
Uptisphere® Protein A	100 x 4.6 mm	**UPPROTA-10P**