

CHROMATOGRAPHY UNOsphere SUPrA[™] Affinity Chromatography Media

- Reliable performance and high productivity
- High binding capacity at a wide range of linear velocities and bed heights
- Built on the proven UNOsphere media matrix
- Superior flow properties
- Flexible yet predictable for day-to-day ease of use
- Narrow elution profile reduces volume of buffer required

Expand Your Purification Options for Monoclonal Antibodies with UNOsphere SUPrA Affinity Media

UNOsphere SUPrA affinity media are designed for process-scale purification of monoclonal and polyclonal antibodies. These affinity media are built on the proven UNOsphere matrix for predictable performance over a wide range of antibody concentrations.

Fast Flow at Low Pressure

With UNOsphere SUPrA media, higher bed heights can be used to increase residence time without excessive pressure increases, providing developers with a large window of operational freedom.

Robust and Easily Scalable

The UNOsphere[™] products are used in numerous approved purification processes and continue to be dependable media among process developers. Users can confidently scale their processes by changing the flow rate and bed height without compromising binding capacity. UNOsphere SUPrA media typically provide >95% recovery of target antibodies. UNOsphere SUPrA affinity chromatography media are available in a variety of quantities in bulk and in prepacked formats for screening.

UNOsphere SUPrA Media Are Part of a Powerful Workflow Solution

When used with UNOsphere Q support and CHT[™] ceramic hydroxyapatite, UNOsphere SUPrA media form an efficient mAb purification workflow that delivers high purity antibody and excellent host cell protein removal and DNA clearance.

UNOsphere SUPrA Affinity Media Specifications

Composition	Highly cross-linked polymer
Particle size range	53–61 µm
Ligand	Recombinant protein A
Coupling chemistry	Ероху
Working pH range	3–11

Dynamic Binding Capacity*

30 ± 3 mg/ml at 150 cm/hr 25 ± 2 mg/ml at 300 cm/hr 20 ± 2 mg/ml at 450 cm/hr (Minimum spec: 20 mg/ml at 300 cm/hr)

Chemical Stability**

10 mM hydrochloric acid 6 M guanidine hydrochloride 0.1 M arginine (pH 2.8) 0.1 M citrate (pH 2.8)

0.1 M glycine (pH 2.8)

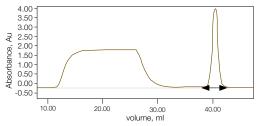
Cleaning-In-Place (CIP) Solutions

	e.ea	
	6 M guanidine hydrochloride	
	10 mM hydrochloric acid	
	0.1 M sodium hydroxide	
	1 M acetic acid/20% ethanol	
	Recommended mobile	
	phase velocity range	100-600 cm/hr
	Temperature stability	2–40 °C
	Delivery conditions	50% slurry in 20% ethanol

Storage conditions 2–8 °C

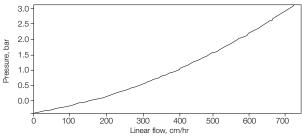
* 10% breakthrough capacity determined with 1.0 mg/ml polyclonal human IgG in 1.1 x 10 cm column.

** No significant change in chromatographic performance after storage for 24 hr at room temperature.

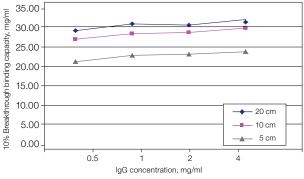


Narrow elution profile of antibody on UNOsphere SUPrA media.

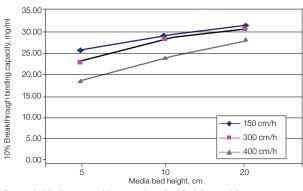




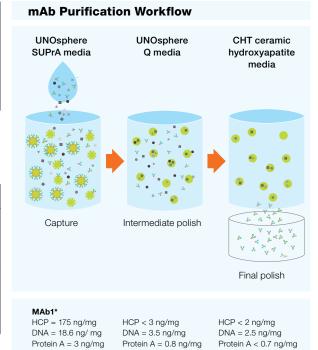
Flow performance of UNOsphere SUPrA media in Bio-Rad[®] InPlace[™] column (20 x 20 cm). 13% axial compression.



Dynamic binding capacities at increasing protein concentrations for various column heights at a linear velocity of 300 cm/hr.



Dynamic binding capacities at various bed heights and flow rates.



Applications and Regulatory Support

Regulatory support files and applications notes are available upon request. Bio-Rad Laboratories is an ISO 9001 registered corporation.

For more information about Bio-Rad's complete line of process chromatography solutions, please visit us at **www.bio-rad.com/UNOsphere/**.

Ordering Information

*Chimeric IgG1

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Catalog #	Description
156-0218	UNOsphere SUPrA affinity chromatography media, 25 ml
156-0219	UNOsphere SUPrA affinity chromatography media, 100 ml
156-0220	UNOsphere SUPrA affinity chromatography media, 500 ml
156-0221	UNOsphere SUPrA affinity chromatography media, 5 L
156-0222	UNOsphere SUPrA affinity chromatography media, 10 L
732-4200	Bio-Scale [™] Mini cartridges prepacked with UNOsphere
	SUPrA media, 1 x 1 ml
732-4201	Bio-Scale Mini cartridges prepacked with UNOsphere
	SUPrA media, 5 x 1ml
732-4202	Bio-Scale Mini cartridges prepacked with UNOsphere
	SUPrA media, 1 x 5 ml

Larger volumes and special packaging are available on request; please contact your local Bio-Rad representative to discuss your requirements.



Bio-Rad Laboratories, Inc.

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 Denmark 44 52 10 00
 Finland 09 804 22 00
 France 01 47 95 69 65

 Germany 089 31 884 0
 Greece 30 210 777 4396
 Hong Kong 852 2789 3300
 Hungary 36 1 459 6100
 India 91 124 4029300
 Israel 03 963 6050

 Italy 39 02 216091
 Japan 03 6361 7000
 Korea 82 2 3473 4460
 Mexico 52 555 488 7670
 The Netherlands 0318 540666
 New Zealand 0508 805 500

 Norway 23 84 130
 Poland 48 22 331 99 99
 Portugal 351 21 472 7707
 Russia 7 495 721 14 04
 Singapore 65 6415 3188
 South Africa 27 861 246 723

 Spain 34 91 590 5200
 Sweden 08 555 12700
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