

# Datasheet

## AAVX Lab Scale Purification Columns

BioServUK's AAVX Lab Scale columns are pre-packed and ready to use with AAVX resin for affinity purification of native and recombinant adeno-associated virus (AAV) subtypes. The AAVX resin is the gold standard resin used for the purification of AAV particles.

BioServUK's pre-packed lab scale AAVX columns offer high specificity, capacity and maximises yield by reducing process steps. All columns are tested for HETP and peak asymmetry. Flow properties can be tested on request.

### Column / Resin Performance

Column Characteristic	Description
Resin Support Matrix	Cross-linked poly(styrene-divinylbenzene)
Resin Ligand	Single domain (VHH) antibody fragment
Binding Capacity	>1x10 <sup>13</sup> genome copies/mL of resin
Serotype Affinity	AAV1 through AAV9
Particle Size	50µm
Column Storage Buffer	20% Ethanol
Column Hardware Operating Pressure	3-5 bar
Storage conditions	2-8°C
Shipping Conditions	Ambient



50ml Column Volume  
(26mm ID x 50mm BH)



2ml & 5ml Long  
Bed Column

1 ml  
HiFlo®

5 ml  
HiFlo®

Internal Diameter (mm)	Typical Volume	Connection	Pressure Rating	Application
6 (Short Bed)	0.2ml	Compatible with all common chromatography systems such as AKTA, NGC, etc.	5 bar (70psi)	Preparative purifications, resin screening, process development and validation
7 (Short Bed)	1ml			
7 (Long Bed)	1ml to 4ml			
11 (Long Bed)	5ml to 20ml		Standard is 3-5 bar (42-70psi). Higher pressure is available on request	
16 (Short Bed)	5ml			
16 (Long Bed)	20ml to 40ml			
26 (Long Bed)	50ml to 100ml			
50 (Long Bed)	100ml	Female-thread M6		

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## HiFliQ AAVX Bioprocessing Columns

BioServUK's AAVX GMP Bioprocessing columns are pre-packed and ready to use with AAVX resin for affinity purification of native and recombinant adeno-associated virus (AAV) subtypes. The AAVX resin is the gold standard resin used for the purification of AAV particles. BioServUK's pre-packed GMP Bioprocessing scale AAVX columns offer high specificity, capacity and maximises yield by reducing process steps.

### Quality Standards - ISO 9001 QMS

- All materials in direct fluid contact meet USP Class VI and USP <88> requirements for In Vivo Biological Reactivity
- All columns are packed in a controlled non-classified clean room that meets ISO Class 7 non-viable particle (NVP) standards at rest
- All fluid contact components are free from materials of animal origin or compliant with EMEA 410/01

### QC Lot Release Testing

- Theoretical plate numbers (HETP)
- Peak asymmetry
- Flow / pressure measurement (if required)
- Endotoxin level (<0.25 EU/ml)
- Bioburden (<10 CFU / 100ml)

### Column / Resin Performance

Column Characteristic	Description
Resin Support Matrix	Cross-linked poly(styrene-divinylbenzene)
Resin Ligand	Single domain (VHH) antibody fragment
Binding Capacity	>1x10 <sup>13</sup> genome copies/mL of resin
Serotype Affinity	AAV1 through AAV9
Particle Size	50µm
Column Storage Buffer	20% Ethanol
Column Hardware Operating Pressure	3-5 bar
Storage conditions	2-8°C
Shipping Conditions	Ambient

1.5L Column Volume  
(100mm ID x 200mm BH)



Internal Diameter (mm)	Typical Volume	Connection	Pressure Rating	Application
26 (Long Bed)	50 to 100ml	3/4" Tri-Clamp	Standard is 3 bar (42psi). Higher pressure is available on request	Process development, cGMP production
50 (Long Bed)	100ml to 400ml			
80	0.5L to 1L			
100	0.8L to 1.6L			
129	1L to 2.5L			
258	5L to 10L	Tri-Clamp		
330 & above	>10L			

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# ORDERING INFORMATION

## Lab Scale Super AAV HiFliQ Columns

Product Code	Name	Description	Pack Size
BSV-HiFliQ0.2-AAVX-1	0.2mL AAVX 6x7 HiFliQ Column	0.2ml AAVX HiFliQ column: 6mm ID x 7mm BH (1 x 0.2ml)	1
BSV-HiFliQ0.2-AAVX-5	0.2mL AAVX 6x7 HiFliQ Column 5 Pack	0.2ml AAVX HiFliQ column: 6mm ID x 7mm BH (5 x 0.2ml)	5
BSV-HiFliQ1-AAVX-1-SB	1mL AAVX 7x25 HiFliQ Column	1ml AAVX HiFliQ column, short bed height 7mm ID x 25mm BH (1 x 1ml)	1
BSV-HiFliQ1-AAVX-5-SB	1mL AAVX 7x25 HiFliQ Column 5 Pack	1ml AAVX HiFliQ column, short bed height 7mm ID x 25mm BH (5 x 1ml)	5
BSV-HiFliQ2-AAVX-1-LB	2mL AAVX 7x50 HiFliQ Column	2ml AAVX HiFliQ column, long bed height 7mm ID x 50mm BH (1 x 2ml)	1
BSV-HiFliQ2-AAVX-5-LB	2mL AAVX 7x50 HiFliQ Column 5 Pack	2ml AAVX HiFliQ column, long bed height 7mm ID x 50mm BH (5 x 2ml)	5
BSV-HiFliQ5-AAVX-1-SB	5mL AAVX 16x25 HiFliQ Column	5ml AAVX HiFliQ column, short bed height 16mm ID x 25mm BH (1 x 5ml)	1
BSV-HiFliQ5-AAVX-5-SB	5mL AAVX 16x25 HiFliQ Column 5 Pack	5ml AAVX HiFliQ column, short bed height 16mm ID x 25mm BH (5 x 5ml)	5
BSV-HiFliQ5-AAVX-1-LB	5mL AAVX 11x50 HiFliQ Column	5ml AAVX HiFliQ column, long bed height 11mm ID x 50mm BH (1 x 5ml)	1
BSV-HiFliQ5-AAVX-5-LB	5mL AAVX 11x50 HiFliQ Column 5 Pack	5ml AAVX HiFliQ column, long bed height 11mm ID x 50mm BH (5 x 5ml)	5
BSV-HiFliQ10-AAVX-1-LB	10mL AAVX 16x50 HiFliQ Column	10ml AAVX HiFliQ column, long bed height 16mm ID x 50mm BH (1 x 10ml)	1
BSV-HiFliQ10-AAVX-5-LB	10mL AAVX 16x50 HiFliQ Column 5 Pack	10ml AAVX HiFliQ column, long bed height 16mm ID x 50mm BH (5 x 10ml)	5
BSV-HiFliQ25-AAVX-1-LB	25mL AAVX 26x50 HiFliQ Column	25ml AAVX HiFliQ column, long bed height 26mm ID x 50mm BH (1 x 25ml)	1
BSV-HiFliQ25-AAVX-5-LB	25mL AAVX 26x50 HiFliQ Column 5 Pack	25ml AAVX HiFliQ column, long bed height 26mm ID x 50mm BH (5 x 25ml)	5
BSV-HiFliQ50-AAVX-1-LB	50mL AAVX 26x100 HiFliQ Column	50ml AAVX HiFliQ column, long bed height 26mm ID x 100mm BH (1 x 50ml)	1
BSV-HiFliQ50-AAVX-5-LB	50mL AAVX 26x100 HiFliQ Column 5 Pack	50ml AAVX HiFliQ column, long bed height 26mm ID x 100mm BH (5 x 50ml)	5
BSV-HiFliQ100-AAVX-1-LB	100mL AAVX 50x50 HiFliQ Column	100ml AAVX HiFliQ column, long bed height 50mm ID x 50mm BH (1 x 100ml)	1
BSV-HiFliQ100-AAVX-5-LB	100mL AAVX 50x50 HiFliQ Column 5 Pack	100ml AAVX HiFliQ column, long bed height 50mm ID x 50mm BH (5 x 100ml)	5

## GMP Super AAV HiFliQ Columns

Product Code	Name	Description	Pack Size
BSV-HiFliQ50-AAVX-GMP	50mL AAVX 26x100 GMP HiFliQ Column	50ml AAVX GMP HiFliQ Column: 26mm ID x 100mm BH	1
BSV-HiFliQ100-AAVX-GMP	100mL AAVX 50x50 GMP HiFliQ Column	100ml AAVX GMP HiFliQ Column: 50mm ID x 50mm BH	1
BSV-HiFliQ200-AAVX-GMP	200mL AAVX 50x100 GMP HiFliQ Column	200ml AAVX GMP HiFliQ Column: 50mm ID x 100mm BH	1
BSV-HiFliQ400-AAVX-GMP	400mL AAVX 50x200 GMP HiFliQ Column	400ml AAVX GMP HiFliQ Column: 50mm ID x 200mm BH	1
BSV-HiFliQ500-AAVX-GMP	500mL AAVX 80x100 GMP HiFliQ Column	500ml AAVX GMP HiFliQ Column: 80mm ID x 100mm BH	1
BSV-HiFliQ780-AAVX-GMP	780mL AAVX 100x100 GMP HiFliQ Column	780ml AAVX GMP HiFliQ Column: 100mm ID x 100mm BH	1
BSV-HiFliQ1000-AAVX-GMP	1L AAVX 80x200 GMP HiFliQ Column	1L AAVX GMP HiFliQ Column: 80mm ID x 200mm BH	1
BSV-HiFliQ1300-AAVX-GMP	1.3L AAVX 130x100 GMP HiFliQ Column	1.3L AAVX GMP HiFliQ Column: 130mm ID x 100mm BH	1
BSV-HiFliQ1500-AAVX-GMP	1.5L AAVX 100x200 GMP HiFliQ Column	1.5L AAVX GMP HiFliQ Column: 100mm ID x 200mm BH	1

## Super AAV Bulk Resin

Product Code	Name	Description	Pack Size
BSV-Super-AAV5	5mL Super AAV Resin	5mL Super AAV Resin only	1
BSV-Super-AAV20	20mL Super AAV Resin	5mL Super AAV Resin only	1