

Purification of Viruses and Viral-like-particles

BioToolomics has developed special chromatography media tailored for the purification of vaccines, viruses or VLPs. All type of resins can be supplied in pre-packed disposable columns for R&D or GMP use (with regulatory support files).

Shelled Mixed-Mode Resins: Purifying viral materials in flow-through mode, i.e. impurities smaller than a virus is adsorbed to the mixed-mode ligand inside the bead, meanwhile intact virus passes through the column. It is a very gentle method with little loss of product.

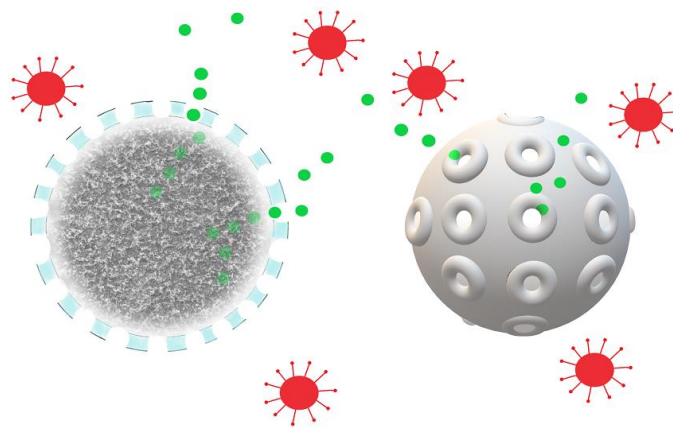
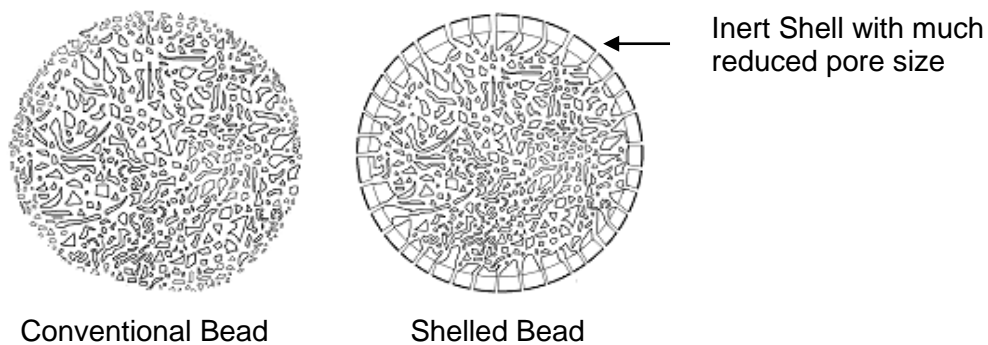
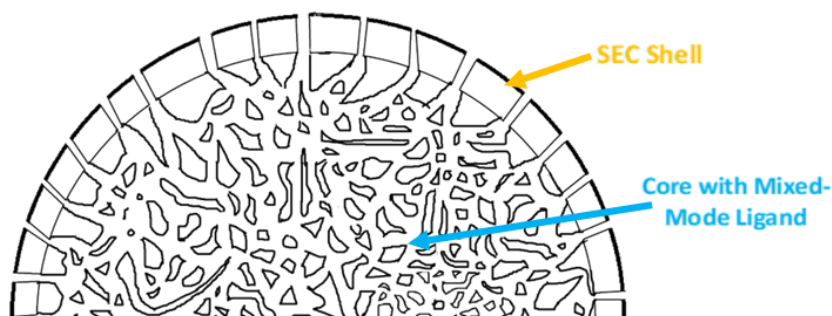


Illustration of the working mechanism of Shelled Chromatography Resin



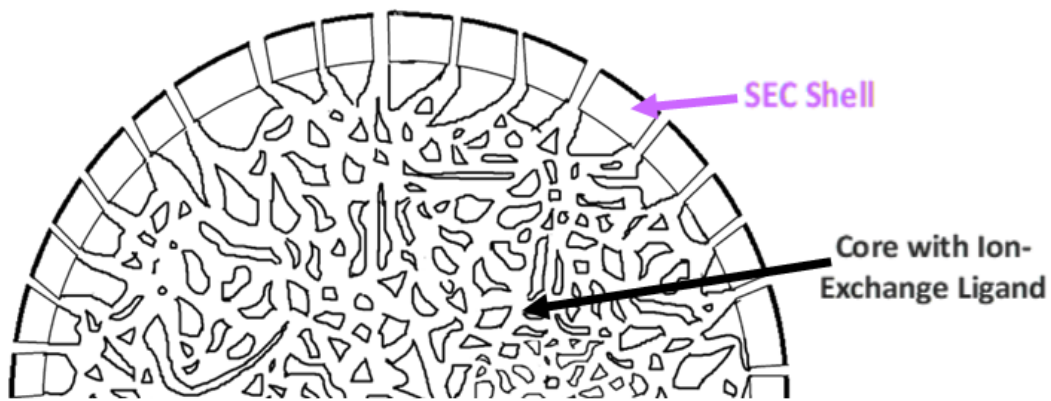
ViralPolish



Shelled Mixed-Mode Resin	Application Guide	Key Features
ViralPolish™ 5000A ViralPolish™ 5000B	Good for small AAVs or large antigens	The inert out shell has size exclusion effect to block nano particles of different sizes.
ViralPolish™ 7000A ViralPolish™ 7000B	Good for lentiviruses, adeno viruses, exosomes, vesicles, VLPs, larger AAVs, or for removing up to 1kb DNAs	Mixed-mode ligand is immobilised inside to capture impurities. "A" has mild hydrophobicity; "B" has stronger hydrophobicity.
ViralPolish™ 10000A ViralPolish™ 10000B	Good for exosomes, vesicles or any large nanoparticles, or for removing >1kb DNAs	

Other range of 6000, 8000, 9000 also available

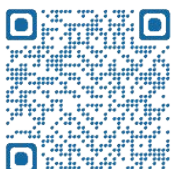
Shelled Ion-Exchange Resins: Purifying viral materials in flow-through mode, i.e. impurities smaller than a virus is adsorbed to the charged groups inside the bead and intact virus passes through the column. It is a very gentle method with little loss of product.



SepFast DUO Ion-Exchange

Shelled IEX Resin	Application Guide	Key Features
SepFast™ DUO 5000 Q SepFast™ DUO 5000 S SepFast™ DUO 5000 DEA SepFast™ DUO 5000 CM	Good for small AAVs or large antigens	The inert out shell has size exclusion effect to block nano particles of different sizes. Ion-exchange ligand is immobilised inside to capture penetrated molecules .
SepFast™ DUO 7000 Q SepFast™ DUO 7000 S SepFast™ DUO 7000 DEA SepFast™ DUO 7000 CM	Good for lentiviruses, adeno viruses, exosomes, vesicles, VLPs, larger AAVs, or for removing up to 1kb DNAs	Q: strong anion-exchanger S: strong cation-exchanger DEA: weak anion-exchanger CM: weak cation-exchanger
SepFast™ DUO 10000 Q SepFast™ DUO 10000 S SepFast™ DUO 10000 DEA SepFast™ DUO 10000 CM	Good for exosomes, vesicles or any large nanoparticles, or for removing >1kb DNAs	

Other range of 6000, 8000, 9000 also available



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