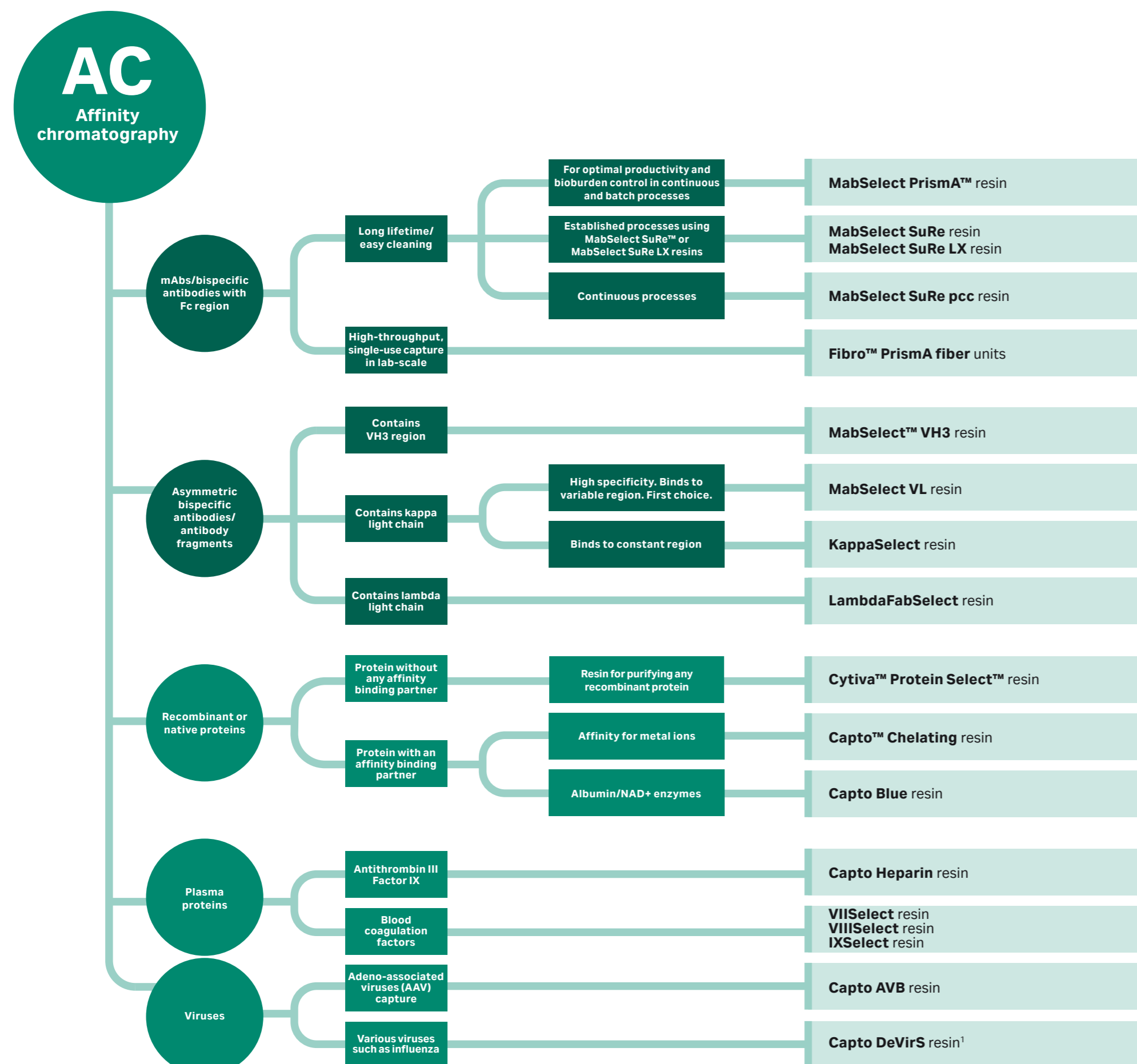
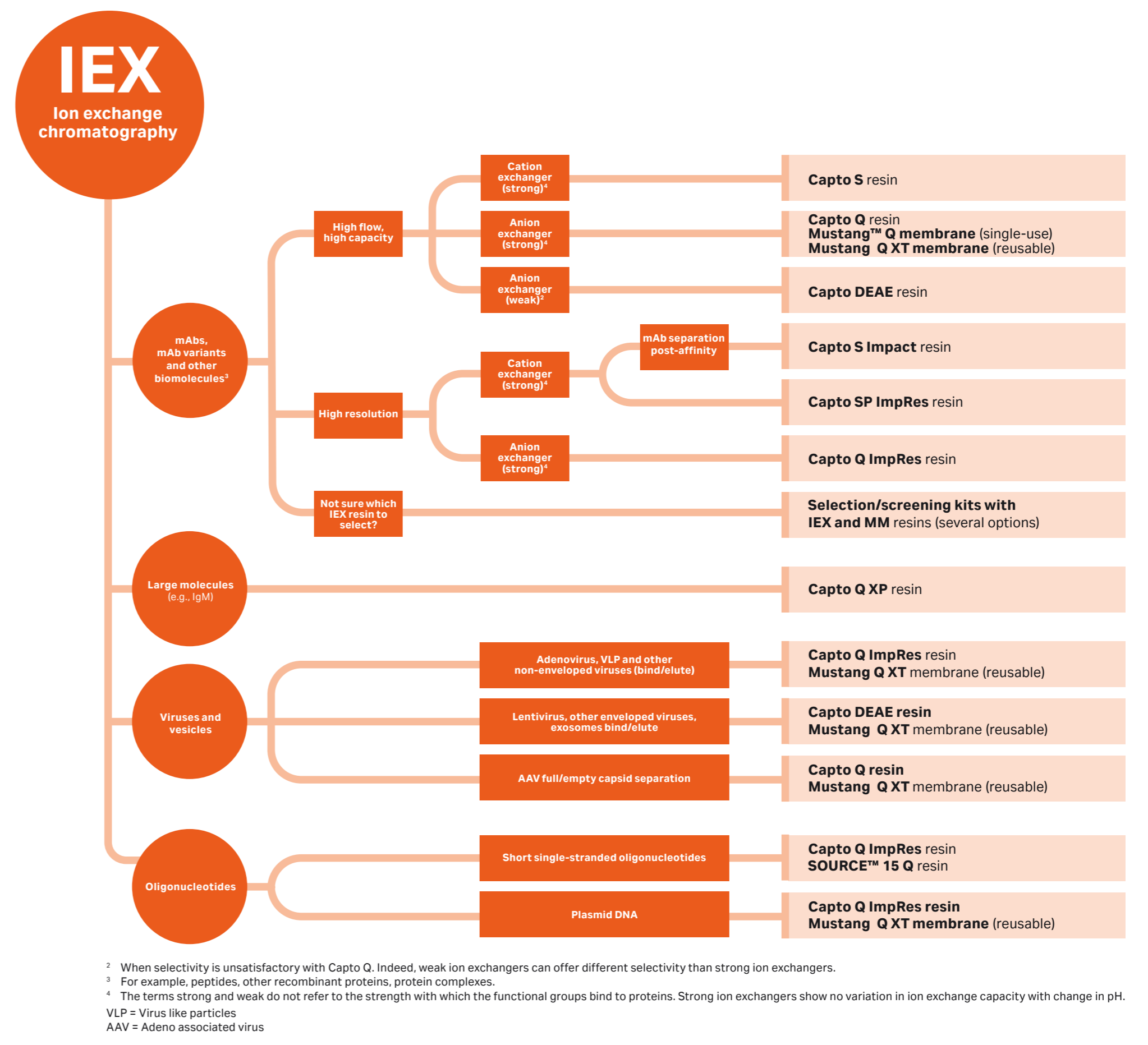


Guide to bioprocess chromatography resins, membranes, and fibers

For process development and biomanufacturing



¹ This resin has a dextran sulfate ligand with an affinity-like behavior for several virus types.



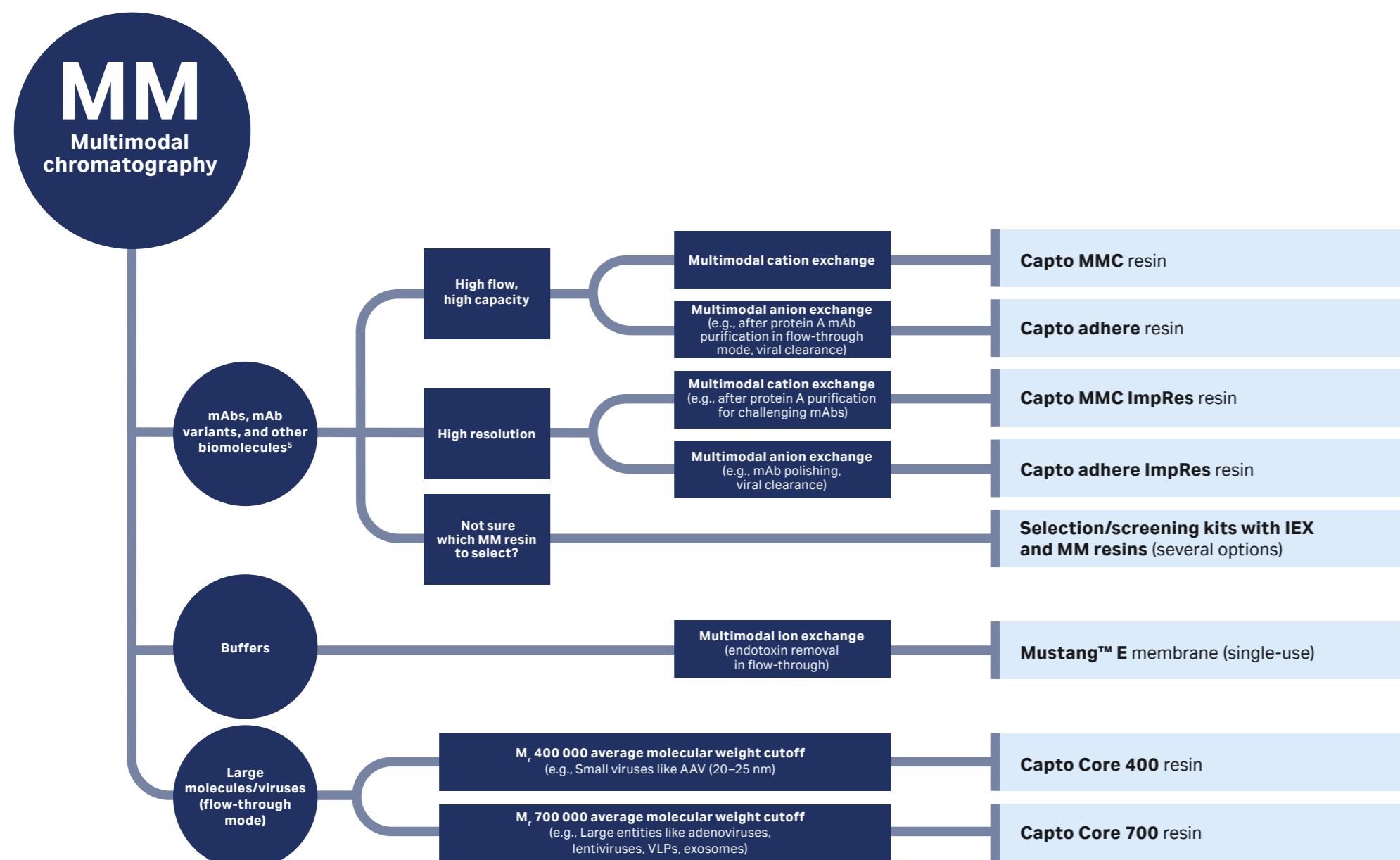
² When selectivity is unsatisfactory with Capto Q. Instead, weak ion exchangers can offer different selectivity than strong ion exchangers.

³ For example, peptides, other recombinant proteins, protein complexes.

⁴ The terms strong and weak do not refer to the strength with which the functional groups bind to proteins. Strong ion exchangers show no variation in ion exchange capacity with change in pH.

VLP = Virus like particles

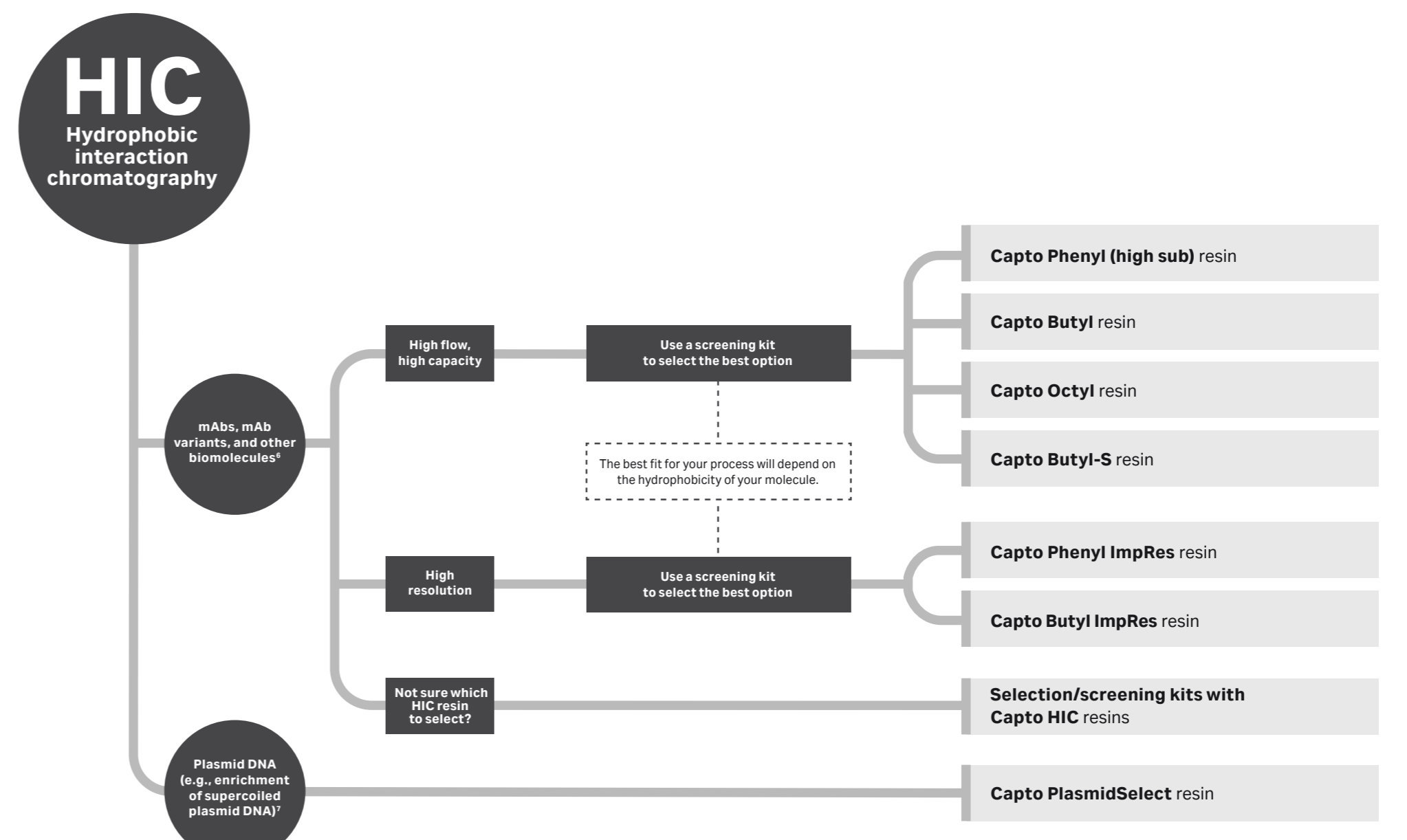
AAV = Adeno associated virus



⁵ For example, oligonucleotides, peptides, other recombinant proteins, protein complexes.

VLP = Virus-like particles

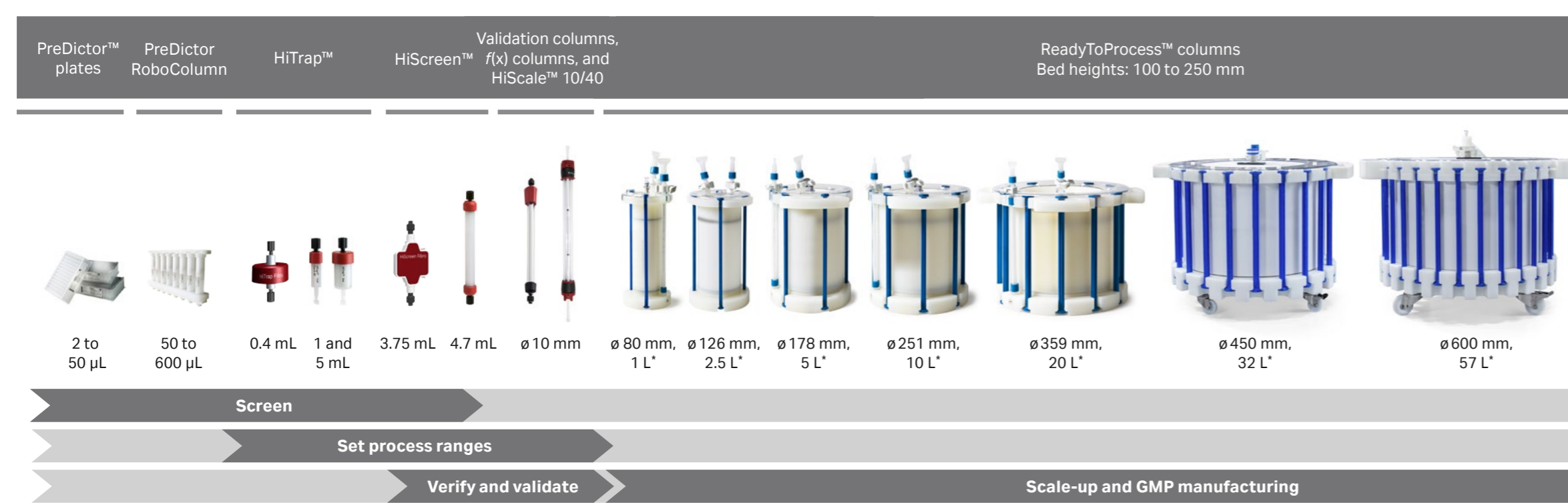
AAV = Adeno associated virus



⁶ For example, oligonucleotides, peptides, other recombinant proteins, protein complexes.

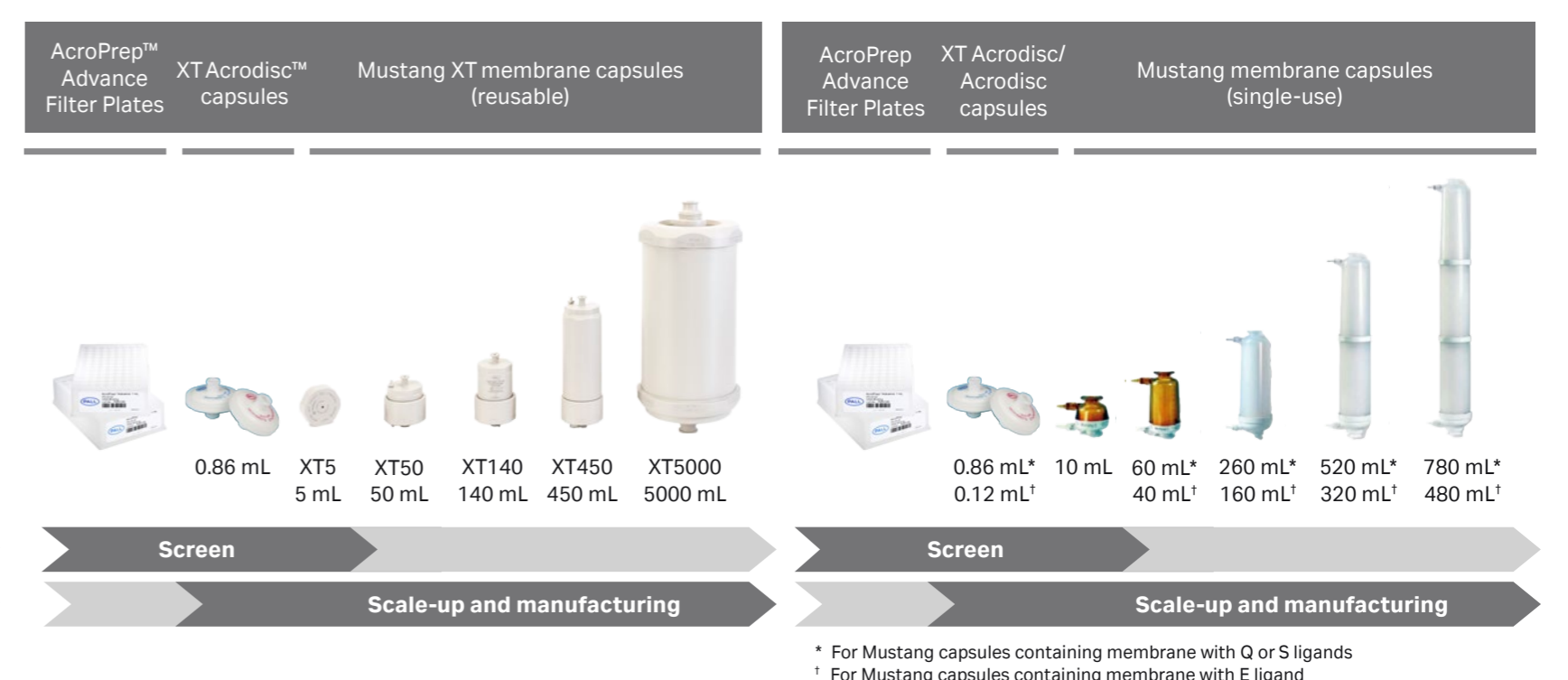
⁷ Thiophilic aromatic adsorption.

Prepacked formats for resins and fiber units



* At 20 cm bed height

Formats for membrane adsorbers



* For Mustang capsules containing membrane with Q or S ligands

† For Mustang capsules containing membrane with E ligand

Note: Additional resins are available, including resins for size exclusion chromatography.

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