

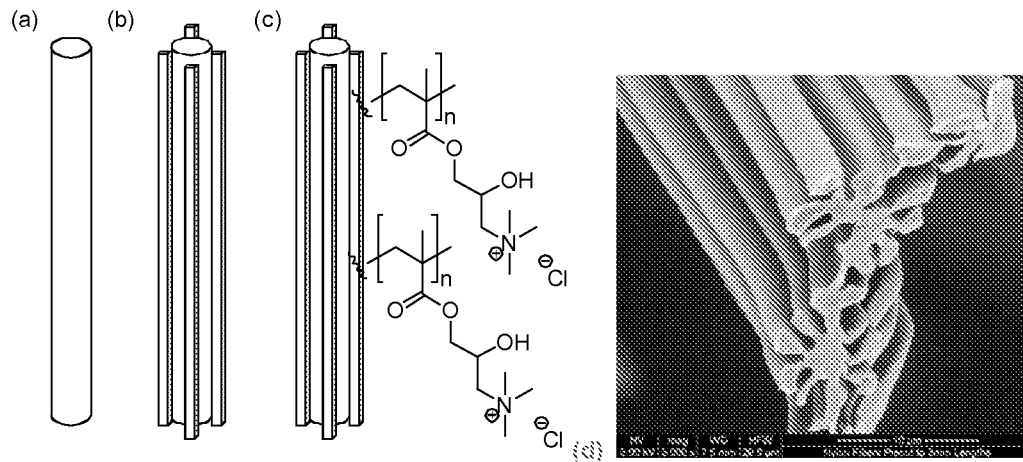


FIG. 1(a): A schematic illustration of a prior art fiber; FIG. 1(b)-(c): A schematic illustration of fibers in accordance with certain embodiments; FIG. 1(d): SEM image of Allasoo Industries Corporation winged fibers.

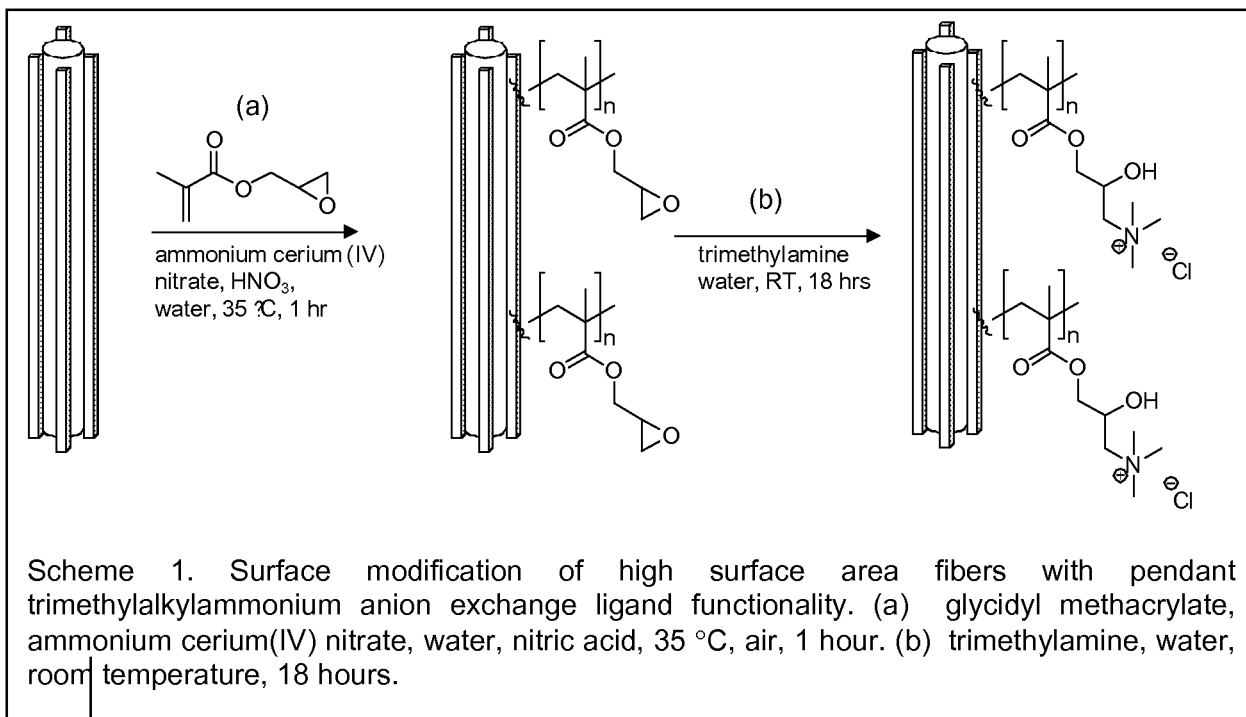


FIG. 1 (e)

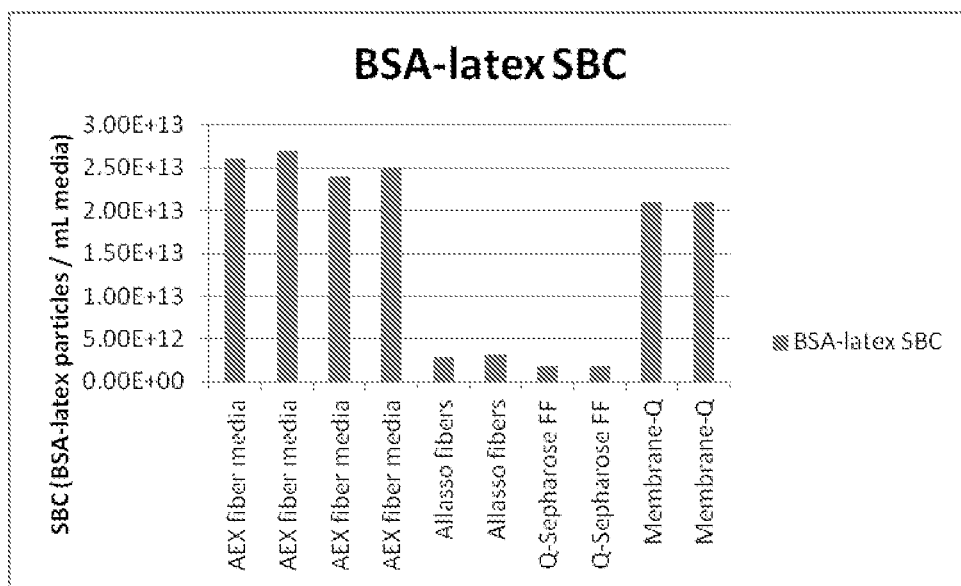


FIG 2. Static binding capacity of BSA-latex particles for selected adsorbants.

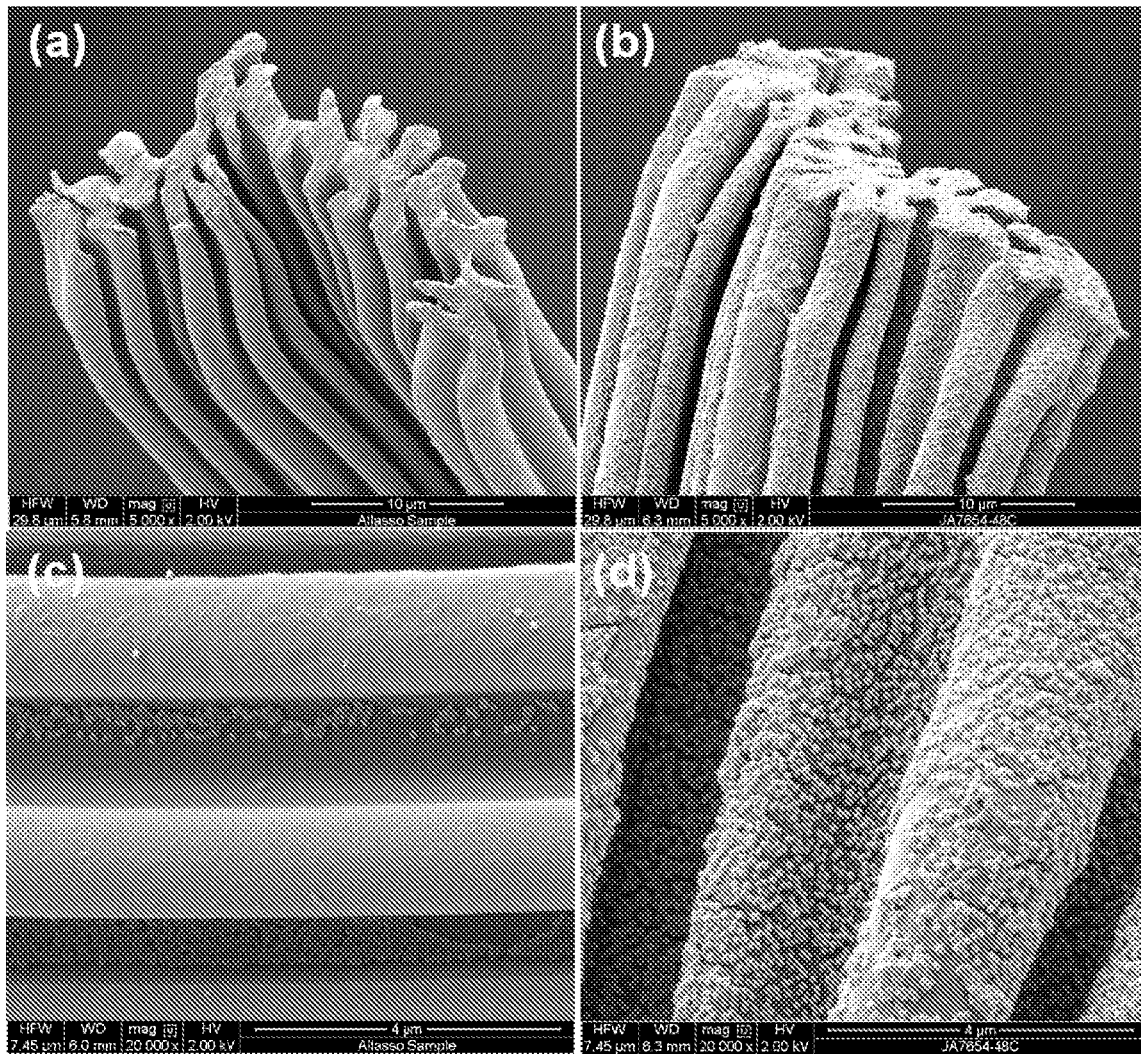


Figure 3(a)-(d): SEM images of unfunctionalized and AEX fiber media with adsorbed BSA-latex particles. (a, c) Unfunctionalized Allasso fibers 5000x and 20000x magnification. (b, d) AEX fiber media 5000x and 20000x magnification.

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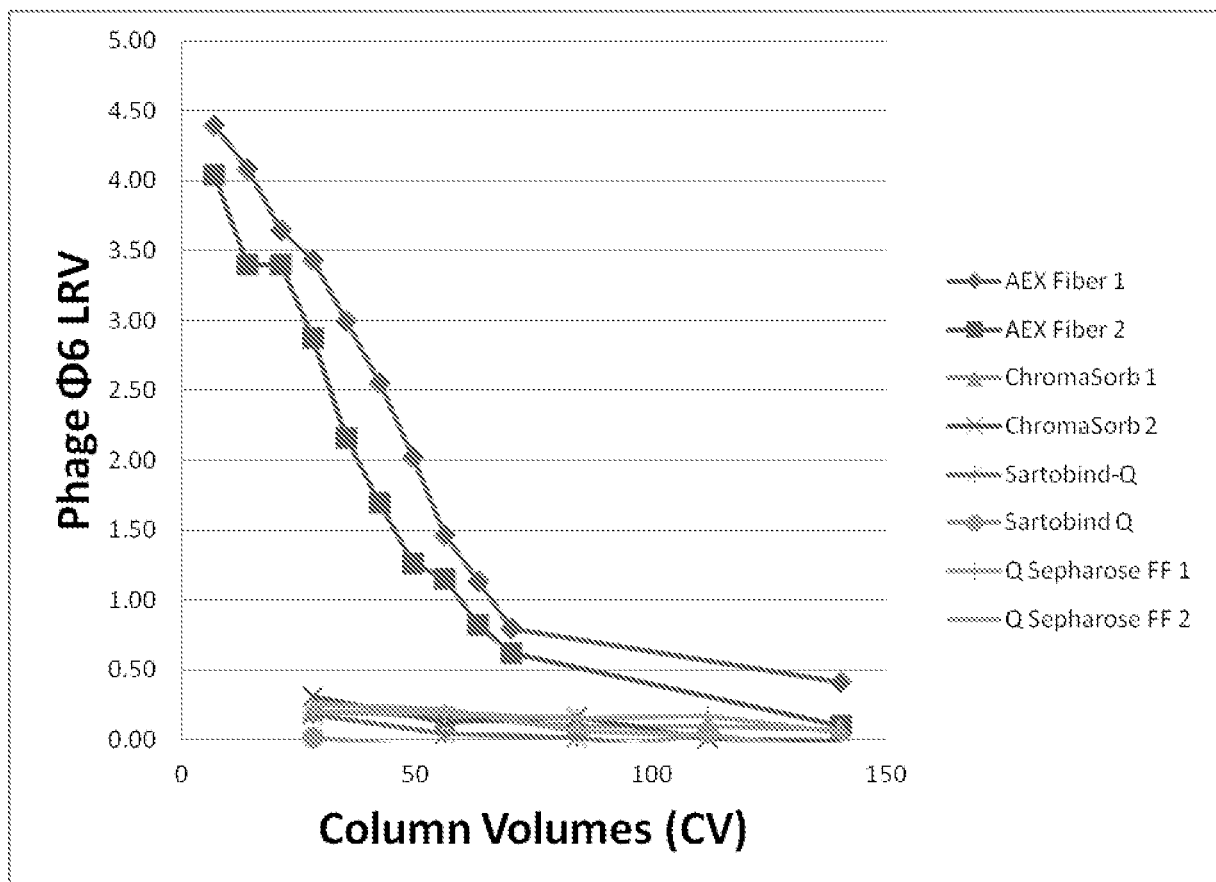


FIG. 4. $\Phi 6$ LRV for flow through fractions collected for AEX fiber media, as well as selected commercial membrane adsorbers and a bead-based AEX media.

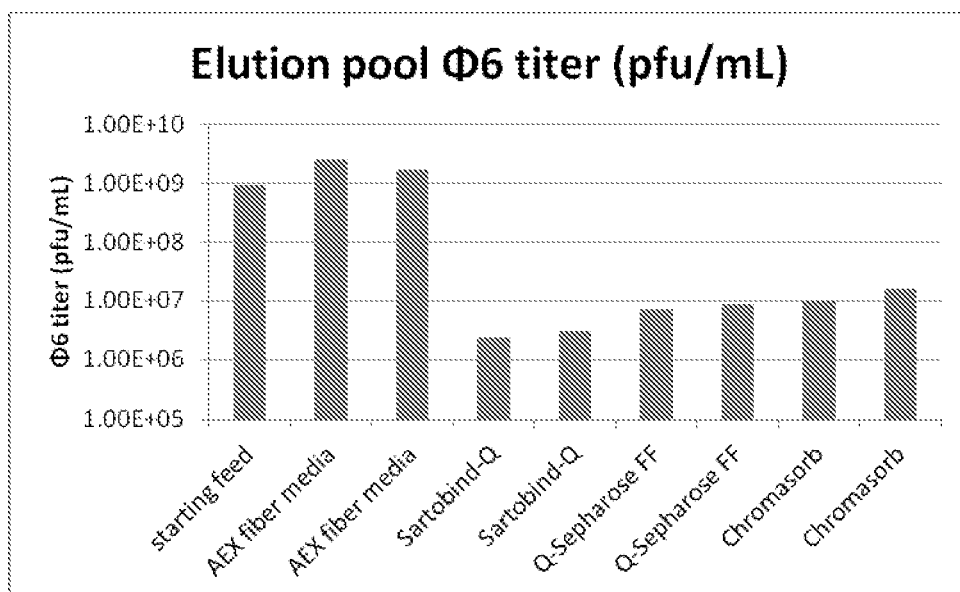


Figure 5. Elution pool $\Phi 6$ titer for a 15 CV elution pool collected for AEX fiber media, as well as selected commercial membrane adsorbers and a bead-based AEX media.

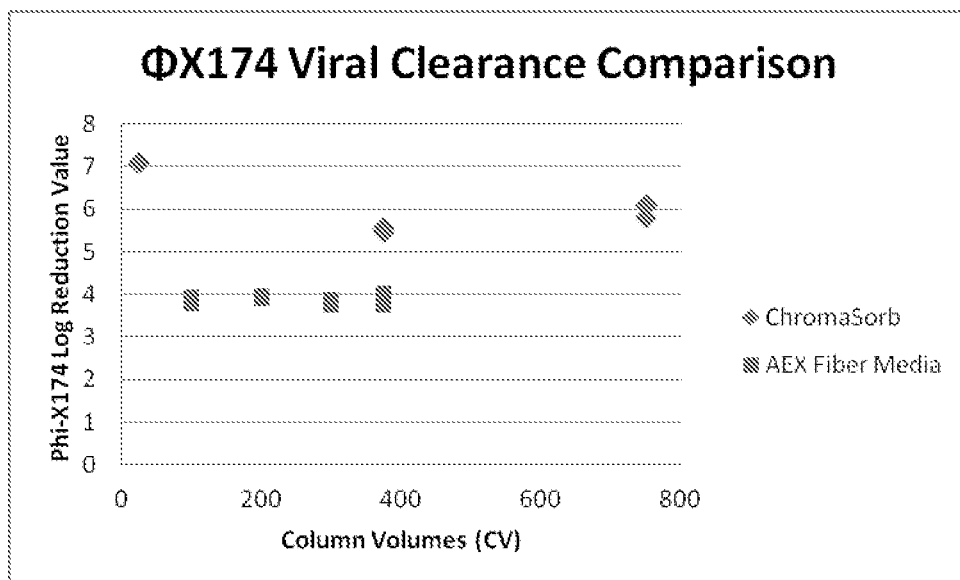


FIG. 6. Plot of flow through $\Phi X174$ clearance LRV values for AEX fiber media and Chromasorb™ devices.

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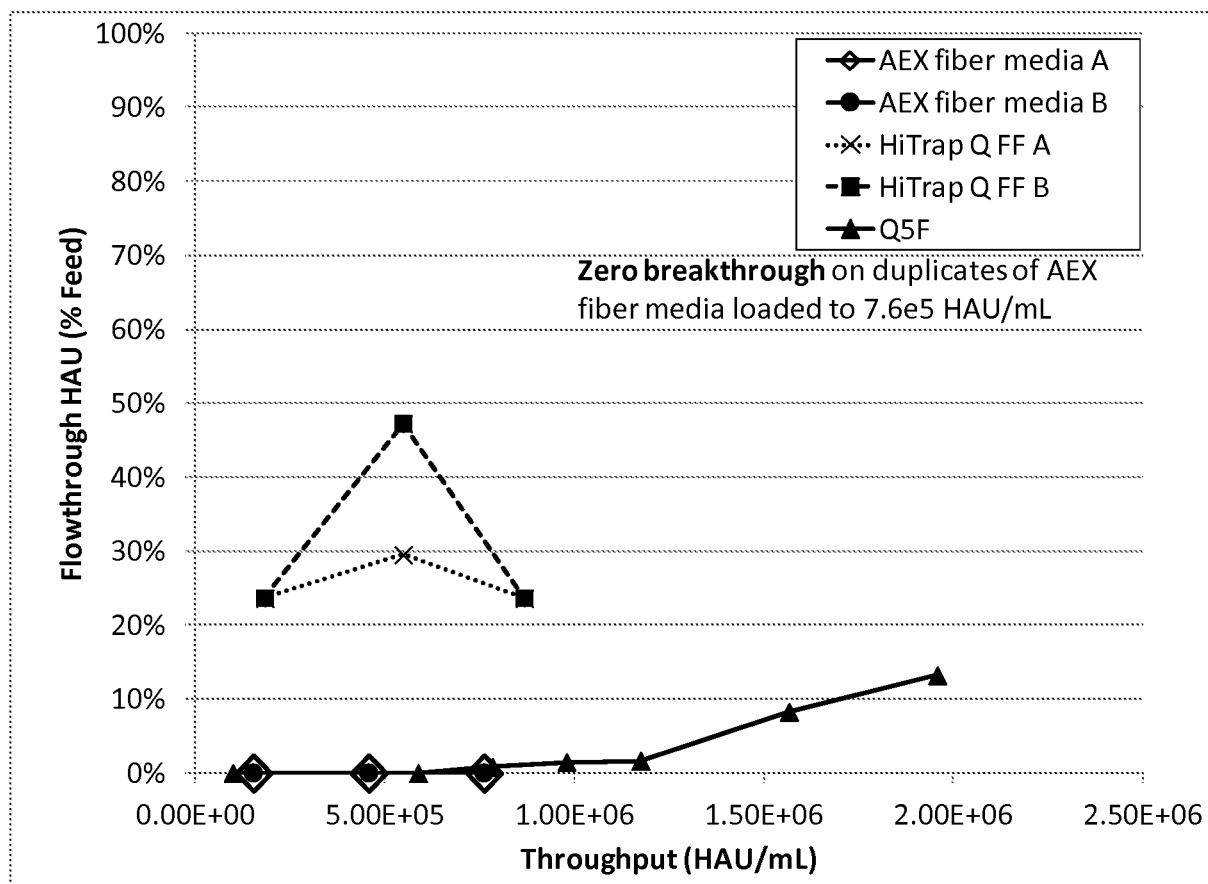


FIG.7. Influenza breakthrough curves.

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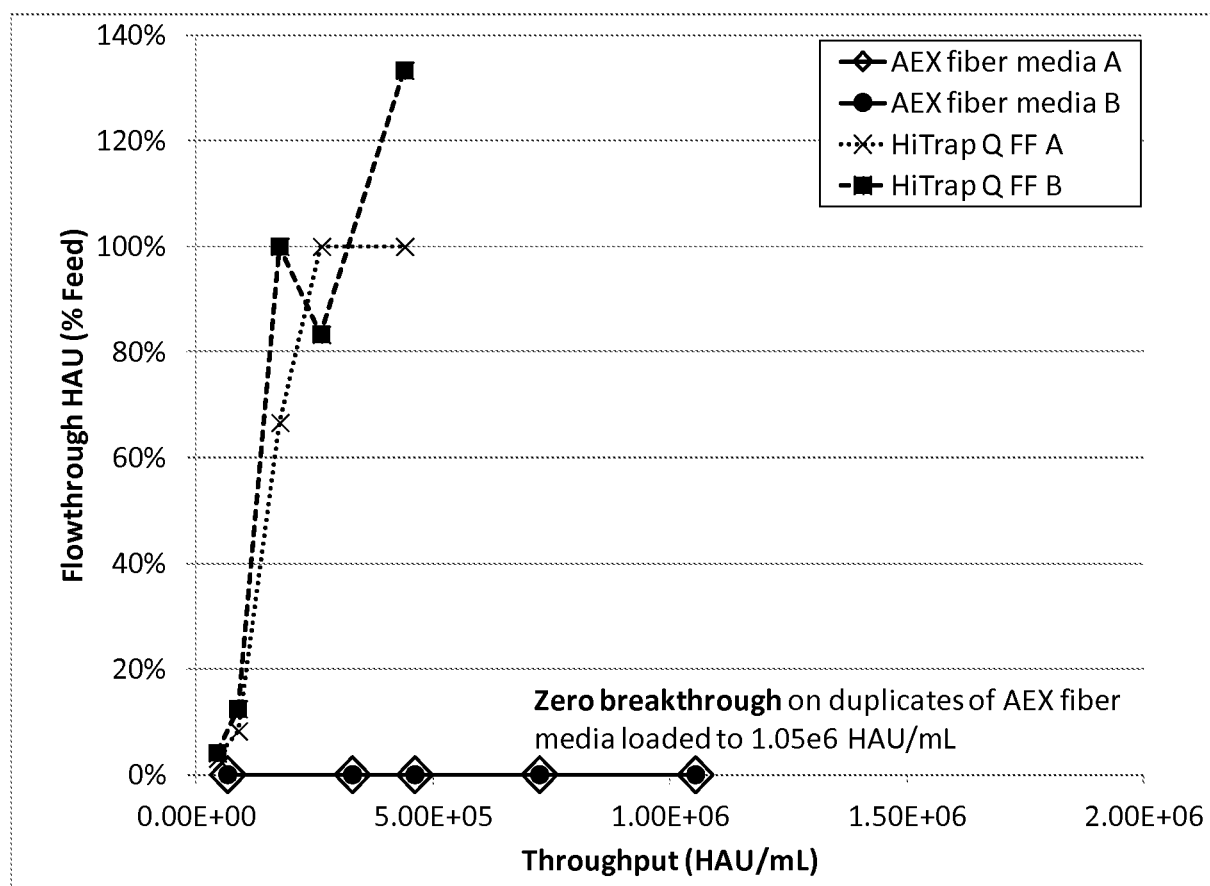


FIG. 8. Influenza breakthrough curves.

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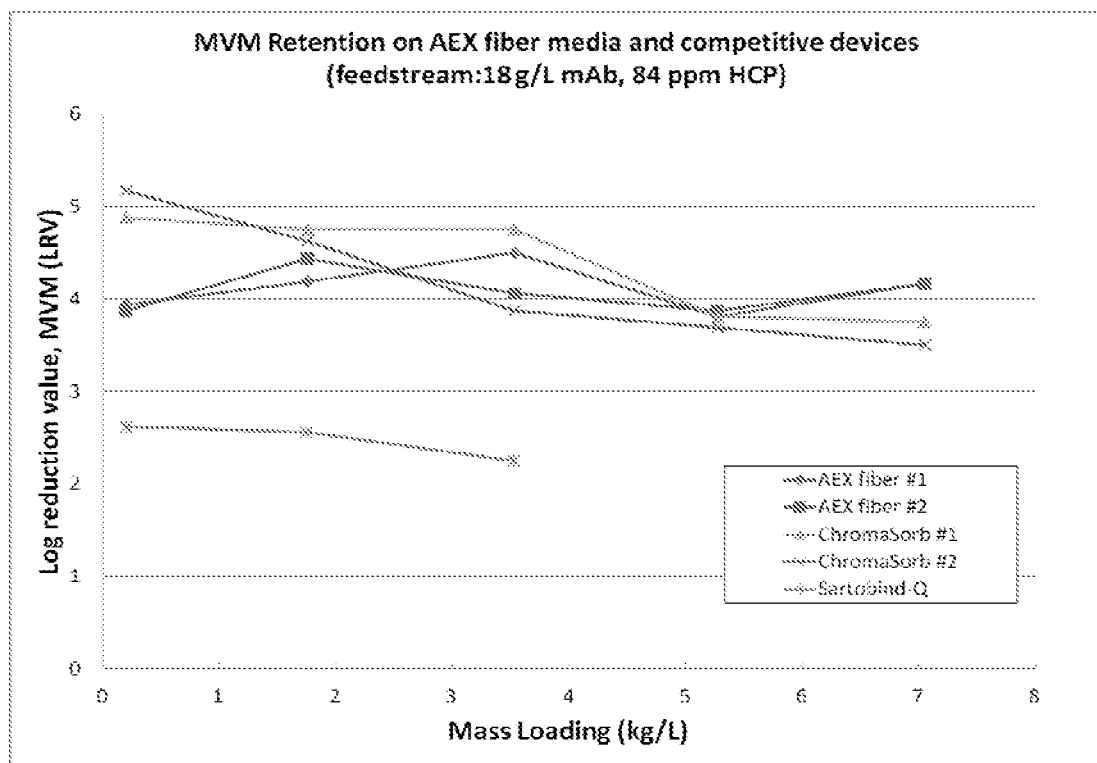


FIG. 9. Plot of flow through MVM clearance LRV values for AEX fiber media, Chromasorb™ and Sartobind®-Q devices.

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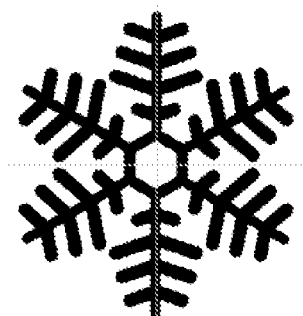
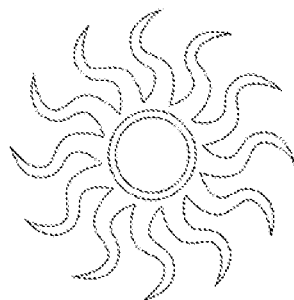


FIG. 10



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FIG. 11

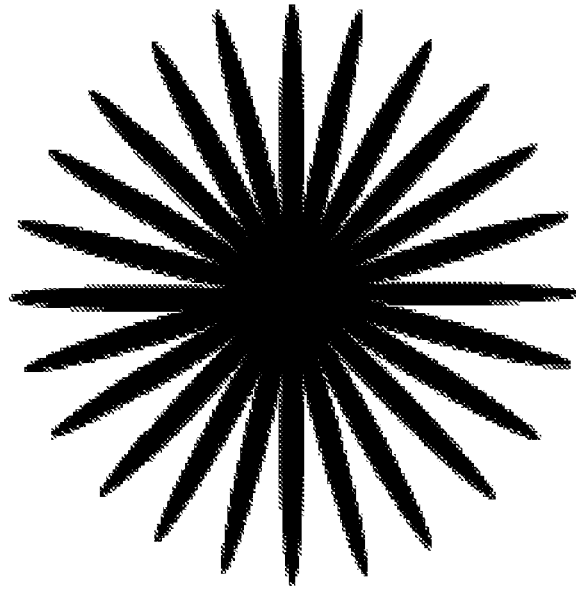


FIG. 12



FIGS. 13(a)-(e). Cross-sectional views of fibers with projections and branched sub-projections in accordance with certain embodiments. (a) cross-sectional view of a fiber with 6 projections, (b) cross-sectional view of a fiber with 24 projections, (c,d,e) cross-sectional views of fibers with projections and sub-projections.

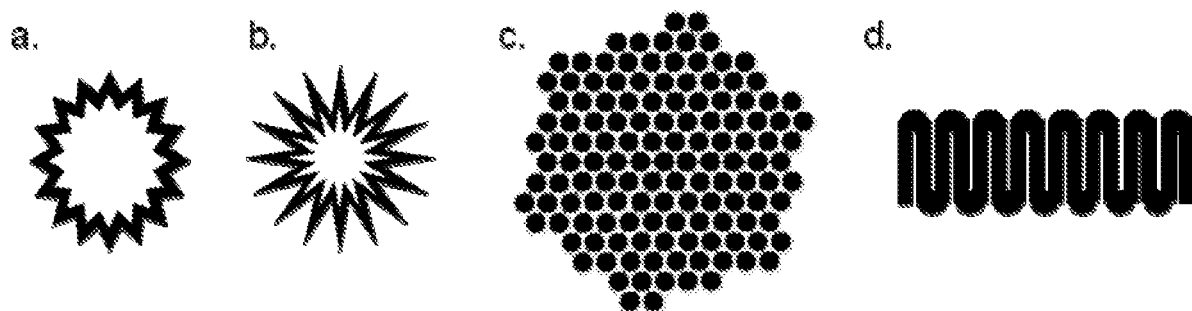


FIG. 14(a)-(d). Cross-sectional views of shaped fibers with increased surface area in accordance with certain embodiments. (a,b) cross-sectional views of fiber each with 16 projections and having a hollow core, (c) cross-sectional view of a bundle of 'islands-in-the-sea' fibers joined together to form a single filament with accessible surface area in the interstitial spaces between each fiber, (d) cross-sectional view of a shaped fiber in the form of a zig-zag shape.