Supplementary Information

Figure S1:
UV-visible spectra of the WSAHA native solution and of the supernatants collected at the end of the experiments of WSAHA sorption performed at $\text{Al}_2\text{O}_3$-to-solution ratios $r$ from 4.9 to 25 g.L$^{-1}$ at pH 3.7.

Figure S2:
Van Krevelen diagram gathering WSAHA constituents that showed a low affinity for the alumina surface (compounds represented in Fig. 6e) including (o) that were not detected on the ESI(-)FTMS spectrum of the filtrate obtained after ultrafiltration of WSAHA native solution with a 3kDa-membrane and (●) whose elemental composition matched that of compounds detected in the 3kDa-filtrate.

![Figure S1](image-url)