



Figure 5: VLP purification from cell culture supernatant. (A) Typical chromatogram for steric exclusion chromatography (SEC): the solid line represents the absorbance at 280 nm and the dashed line the PEG 6000 concentration. (B) Immunoblot of the fractions collected during the chromatography using the pan-flavivirus monoclonal antibody 4G2 as primary antibody. (C) Silver-stained SDS-PAGE. Lane 1: molecular mass marker. Lane 2: clarified supernatant. Lane 3: purified VLP (SEC eluate). (D) Western blot analysis using 4G2 as primary antibody. Lane 1: molecular mass marker. Lane 2: clarified supernatant. Lane 3: purified VLP (SEC eluate). Lane 4: purified VLP after ultra and diafiltration for concentration for PEG removal. (E) SE-HPLC chromatograms using the TSKgel G3000SWXL column for cell culture supernatant and SEC-purified VLP samples.