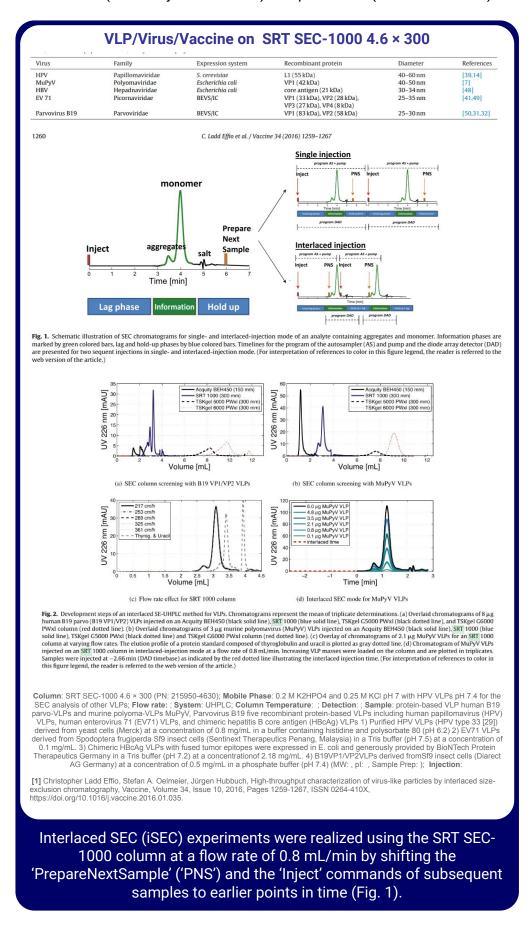


High-throughput characterization of virus-like particles by interlaced size-exclusion chromatography with SRT SEC-1000 4.6 × 300

Interlaced SEC (iSEC) experiments were realized using the SRT SEC-1000 column at a flow rate of 0.8 mL/min. only the SRT 1000 column shows multiple peaks for the VLP samples with high peak area and recovery: The elution of B19 VP1/VP2 VLPs is split into three peak groups with two minor and one major peak, while the elution of MuPyV VLPs reveals one minor and one major peak. Peak fractionation and analysis by SDS-PAGE evidenced the presence of major viral proteins in allthree UVpeaks ofthe B19VP1/VP2 VLP sample and in the two UV peaks of MuPyV VLPs (data not shown). Moreover, the total peak areas in the SEC chromatograms generated with the SRT 1000 column are higher than in those generated with other columns. This suggests a higher recovery and less secondary interactions of VLP components with the SRT 1000 column matrix. The weaker performance of other evaluated columns was attributed to different base materials (methacrylate vs. silica) and pore sizes (450Avs. ° 1000A).





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