

# Opsonic activity of conservative versus variable regions of the group A *Streptococcus* M protein

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VC-1

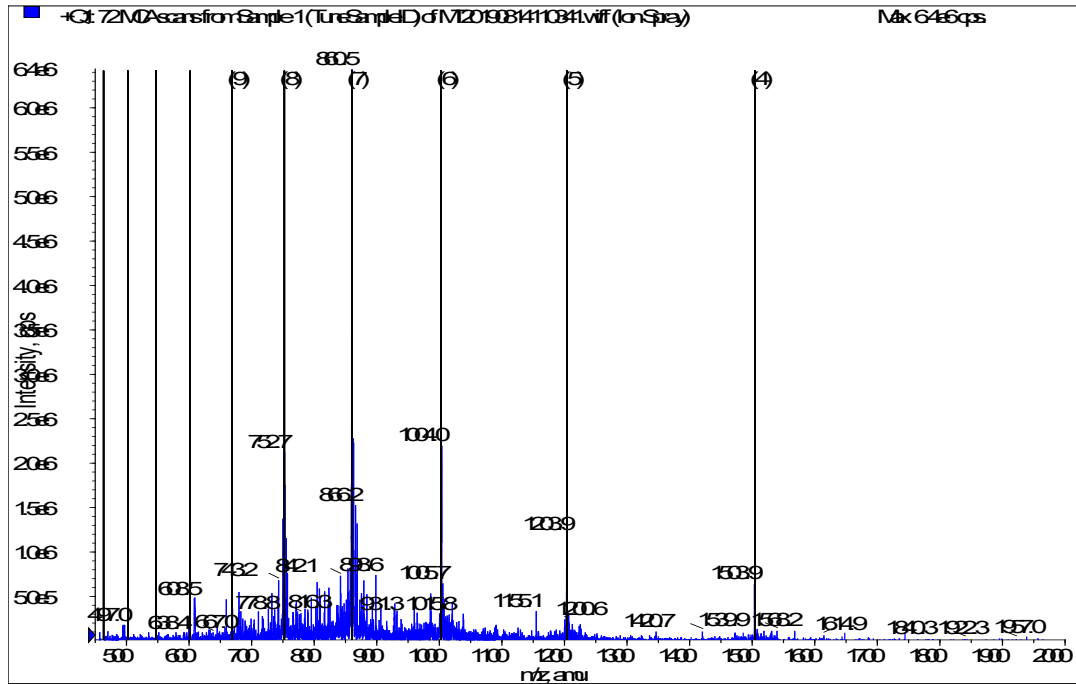


Figure S1: ESI-MS spectrum of VC-1. MW: 6014.2 Da.  $[M+4H]^{4+}=1503.9$  (calculated 1504.6);  $[M+5H]^{5+}=1203.9$  (calculated 1203.8);  $[M+6H]^{6+}=1004.0$  (calculated 1003.4);  $[M+7H]^{7+}=860.5$  (calculated 860.2);  $[M+8H]^{8+}=752.7$  (calculated 752.8).

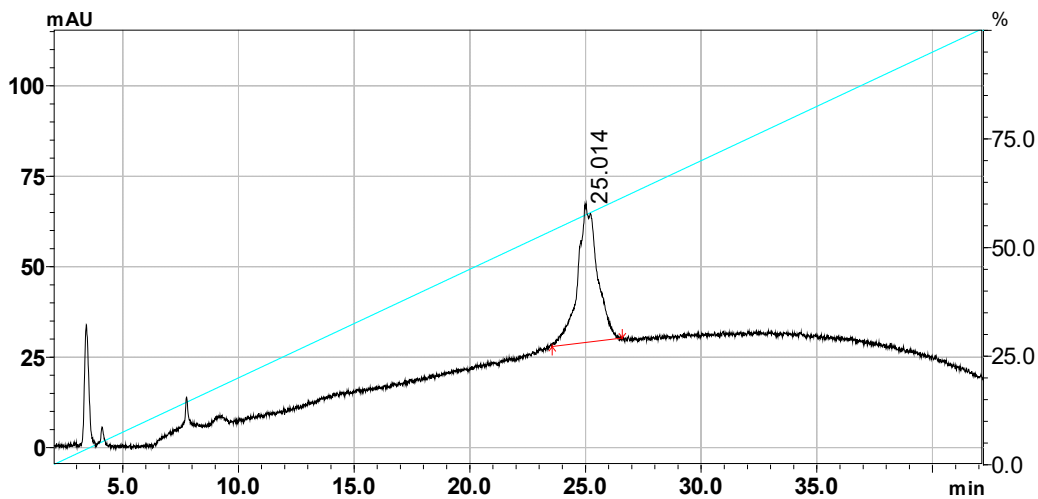


Figure S2: Analytical RP-HPLC spectrum of VC-1 (C4 column).  $T_R=25.0$  min.

VC-2

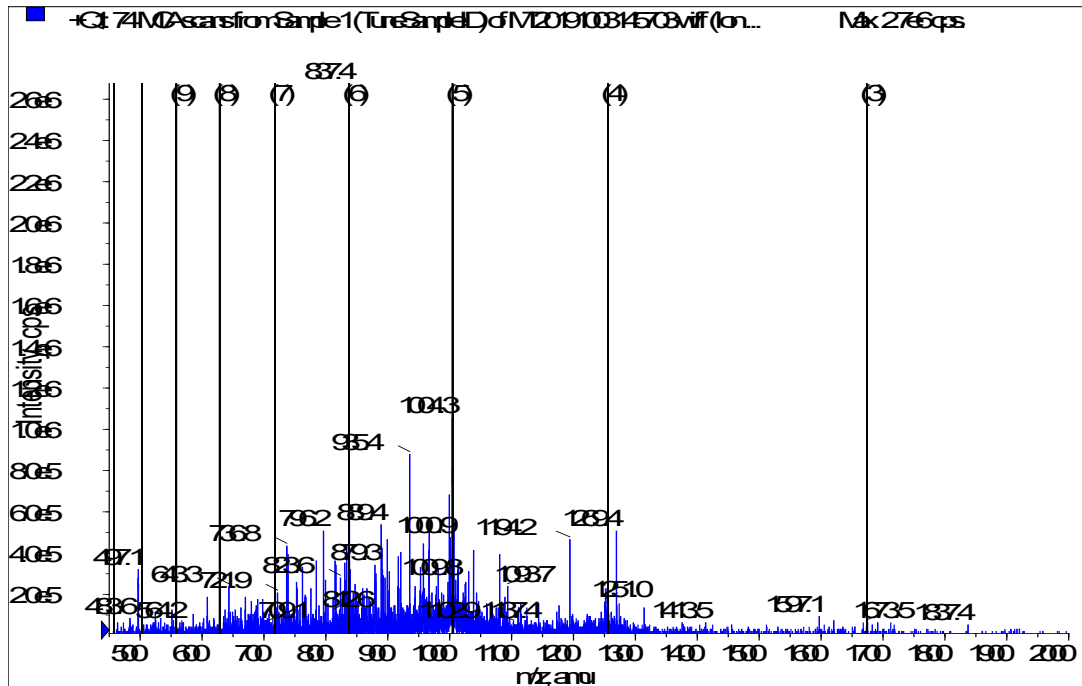


Figure S3: ESI-MS spectrum of VC-2. MW: 5018.0 Da.;  $[M+3H]^{3+}=1673.5$  (calculated 1673.7);  $[M+4H]^{4+}=1255.4$  (calculated 1255.5);  $[M+5H]^{5+}=1004.3$  (calculated 1004.6);  $[M+6H]^{6+}=837.4$  (calculated 837.3).

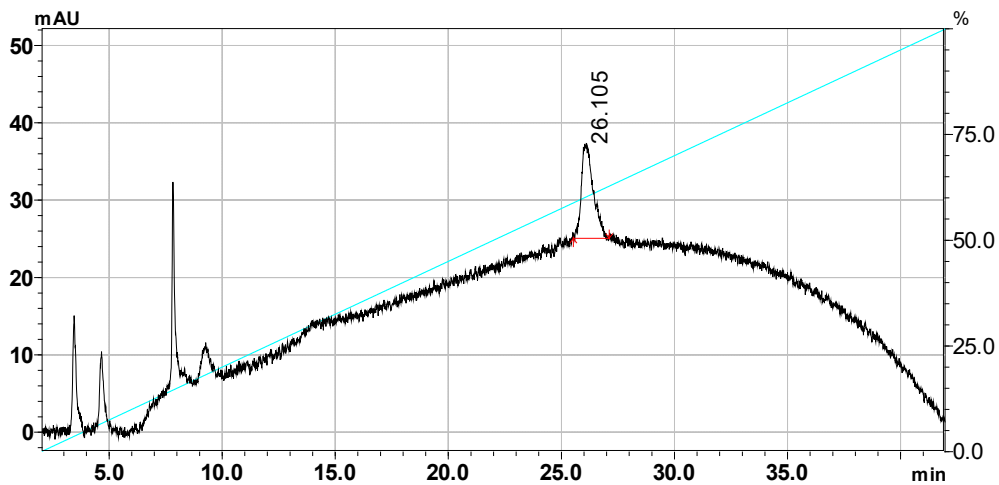


Figure S4: Analytical RP-HPLC spectrum of VC-2 (C4 column).  $T_R=26.1$  min.

## VC-3

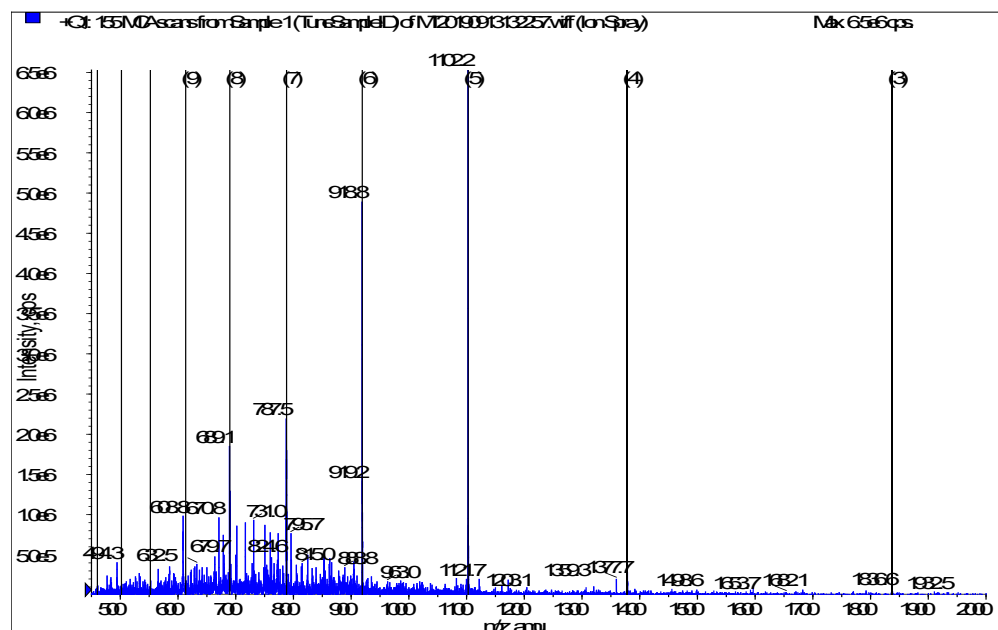


Figure S5: ESI-MS spectrum of VC-3. MW: 5507.4 Da.;  $[M+4H]^{4+}=1377.7$  (calculated 1377.9);  $[M+5H]^{5+}=1102.2$  (calculated 1102.5);  $[M+6H]^{6+}=918.8$  (calculated 918.9);  $[M+7H]^{7+}=787.5$  (calculated 787.8);  $[M+8H]^{8+}=689.1$  (calculated 689.3).

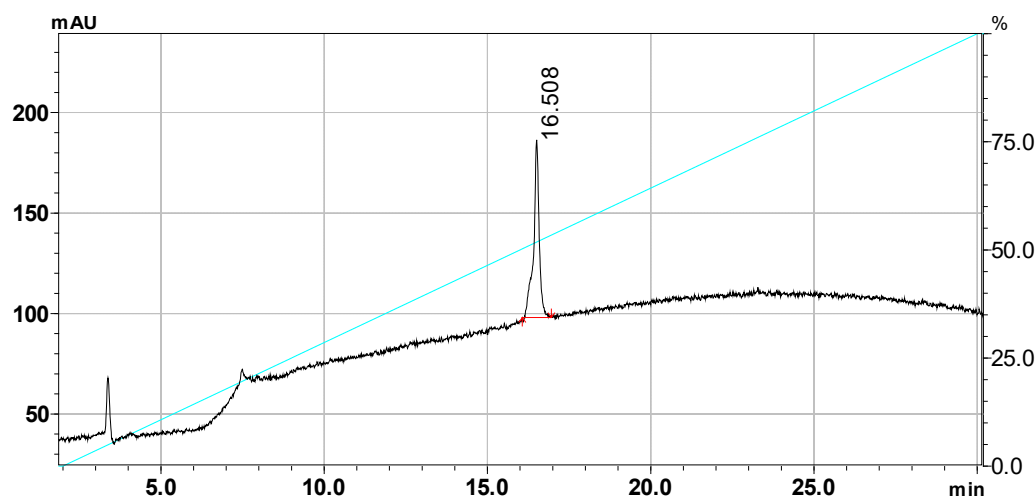


Figure S6: Analytical RP-HPLC spectrum of VC-3 (C18 column).  $T_R=16.5$  min.

### DLS spectra

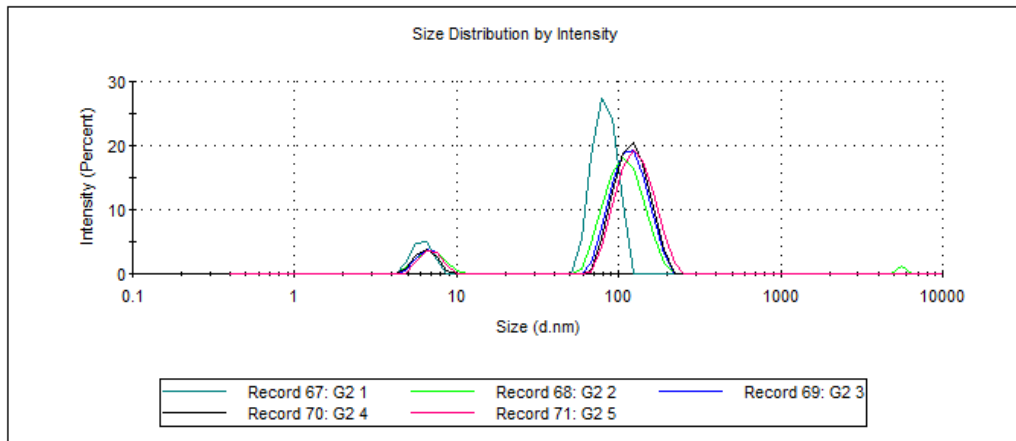


Figure S7: DLS spectra of particle VC-1 size distributions by intensity.

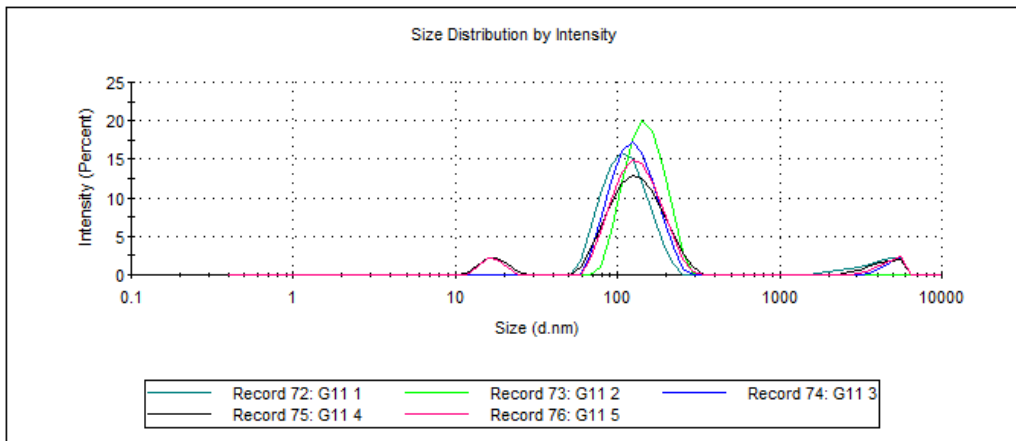


Figure S8: DLS spectra of particle VC-2 size distributions by intensity.

## TEM Images

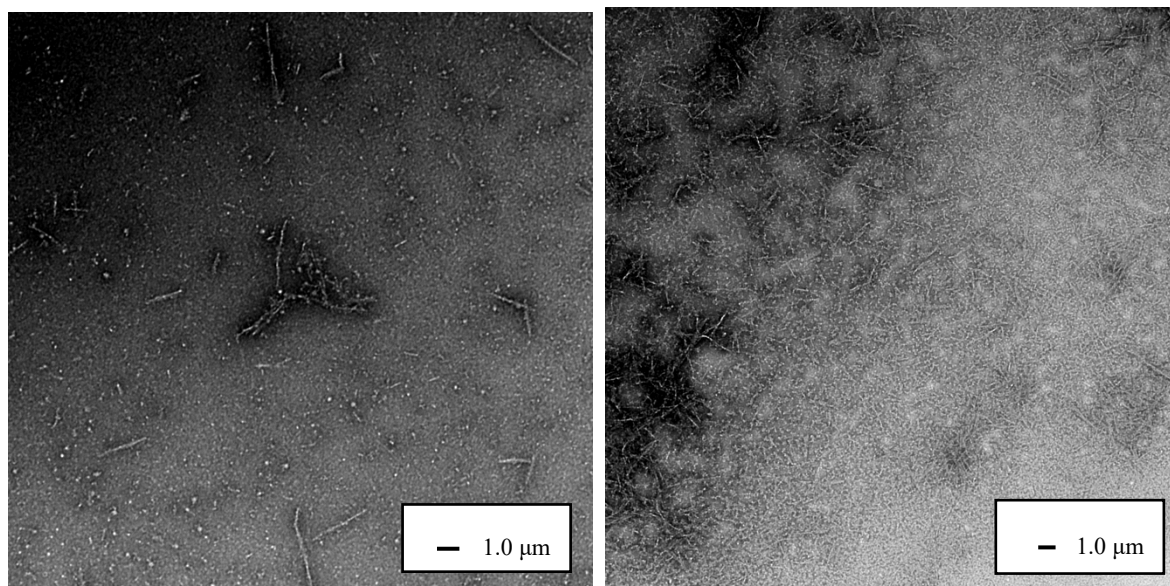


Figure S9: Left: Transmission electron micrograph of VC-1 stained with 2% uranyl acetate.

Right: Transmission electron micrograph of VC-2 stained with 2% uranyl acetate.