

2- α -Rha-3- α -Rha-3- α -Rha- A-PS repeating unit
 A B C

α -Rha3OMe-4-(α -Rha3OMe-4-)₄-4- α -Man3OMe-2-tetritol-1*d* OS1
 E F L X

Double oxidized A-PS for conjugation:

α -Rha3OMe-4-(α -Rha3OMe-4-)₄-4- α -Man3OMe-2-Glyceraldehyde-3*d* OS2
 E F L X

α -Rha3OMe-4-(α -Rha3OMe-4-)₄-4- α -Man3OMe-4- α -Man-4- α -Man-4- α -Man-4- α -Rha2OMe A-PS1
 E F L M K D H

α -Rha3OMe-4-(α -Rha3OMe-4-)₄-4- α -Man3OMe-4- α -Man-4- α -Man-4- α -Man-4- α -Man2OMe A-PS2
 E F L M K D' G

FIG. 1

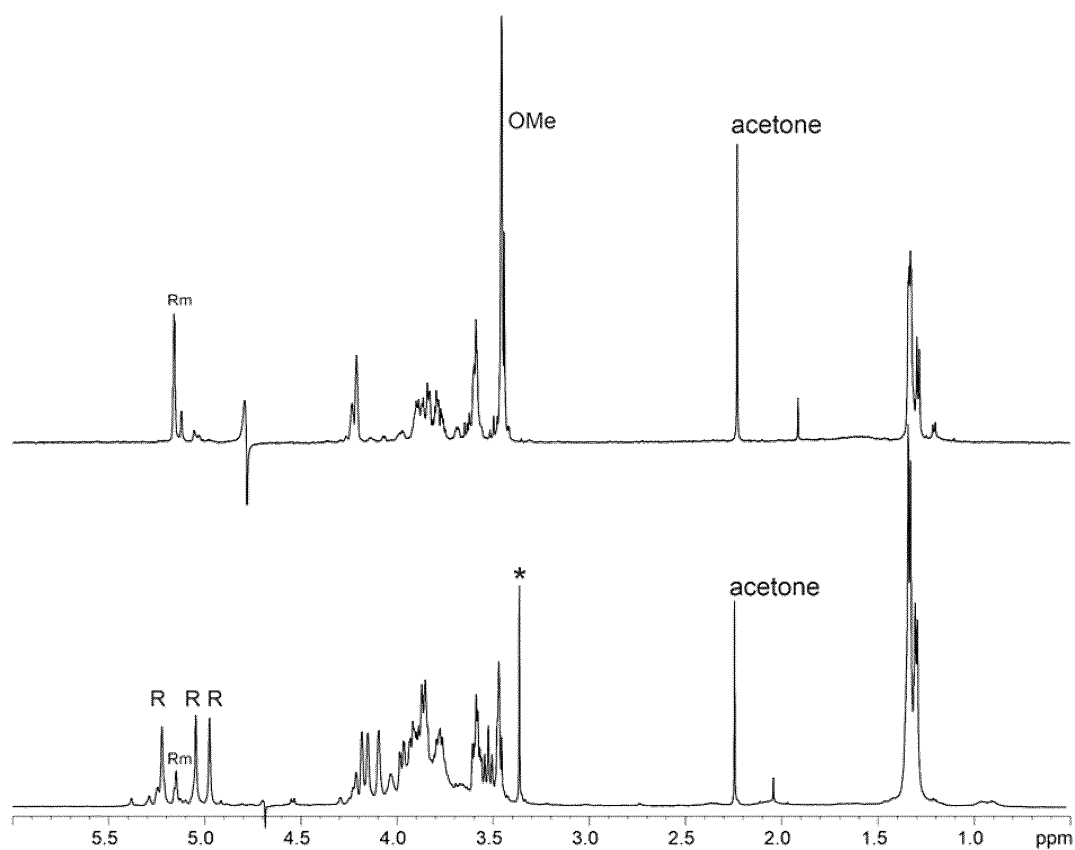


FIG. 2

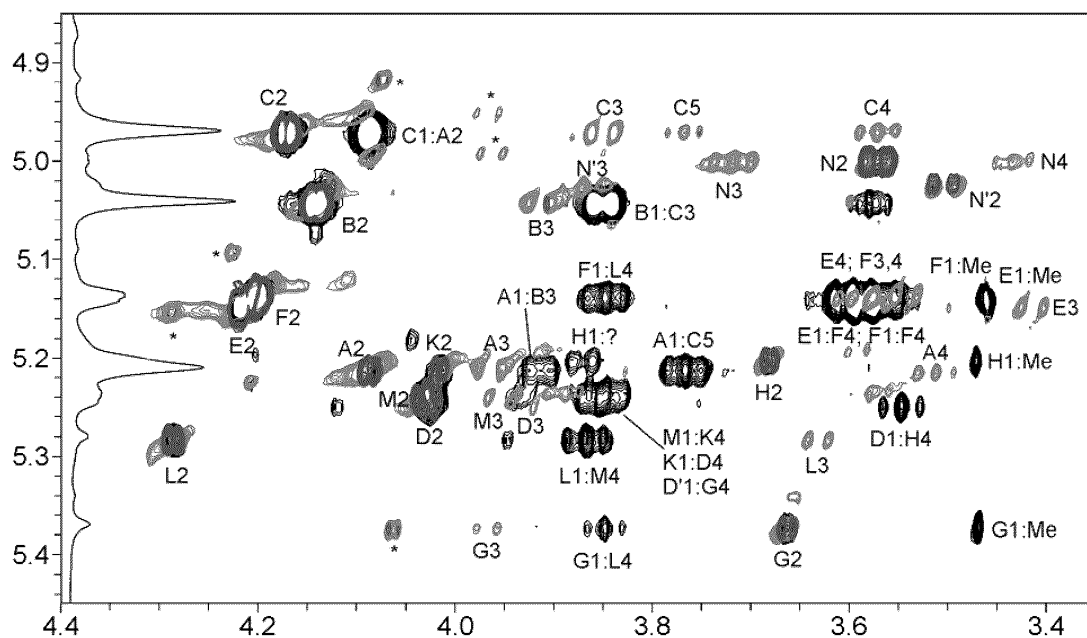
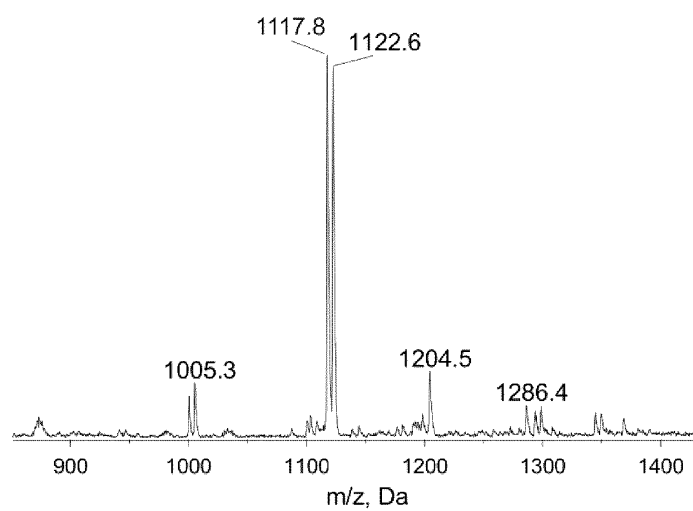


FIG. 3

**Fig. 4**

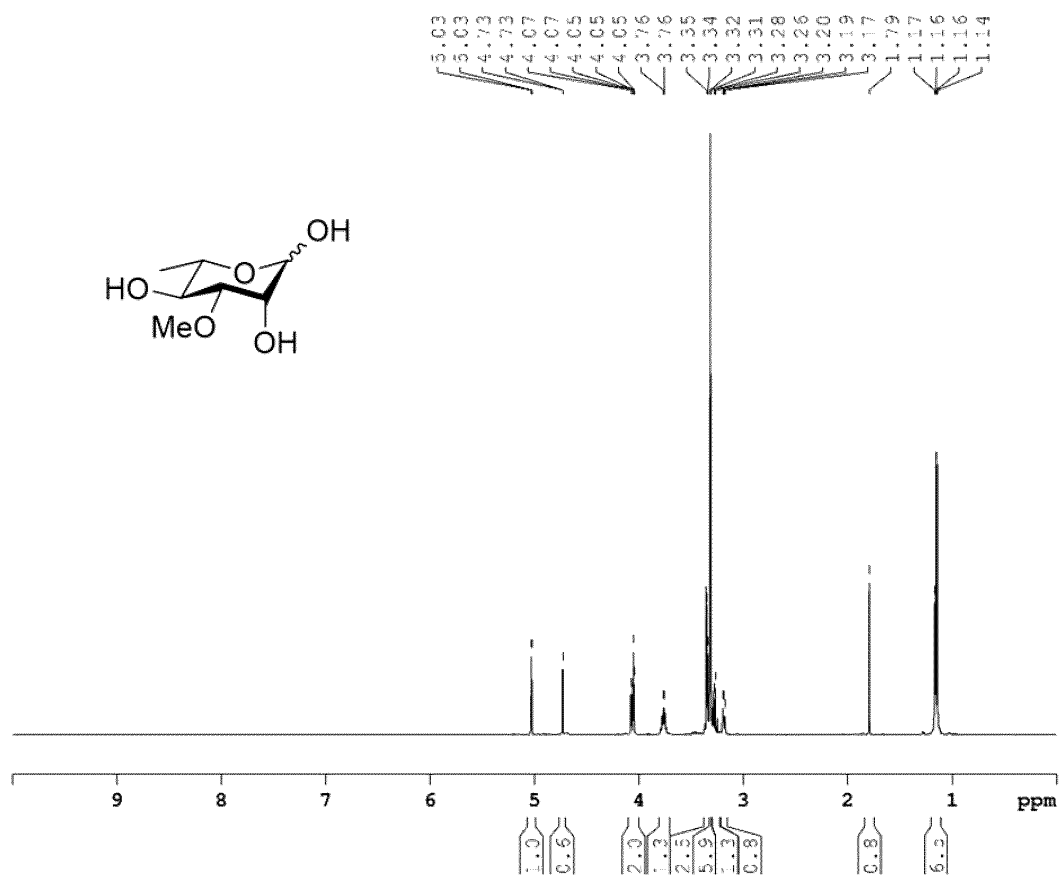


FIG. 5A

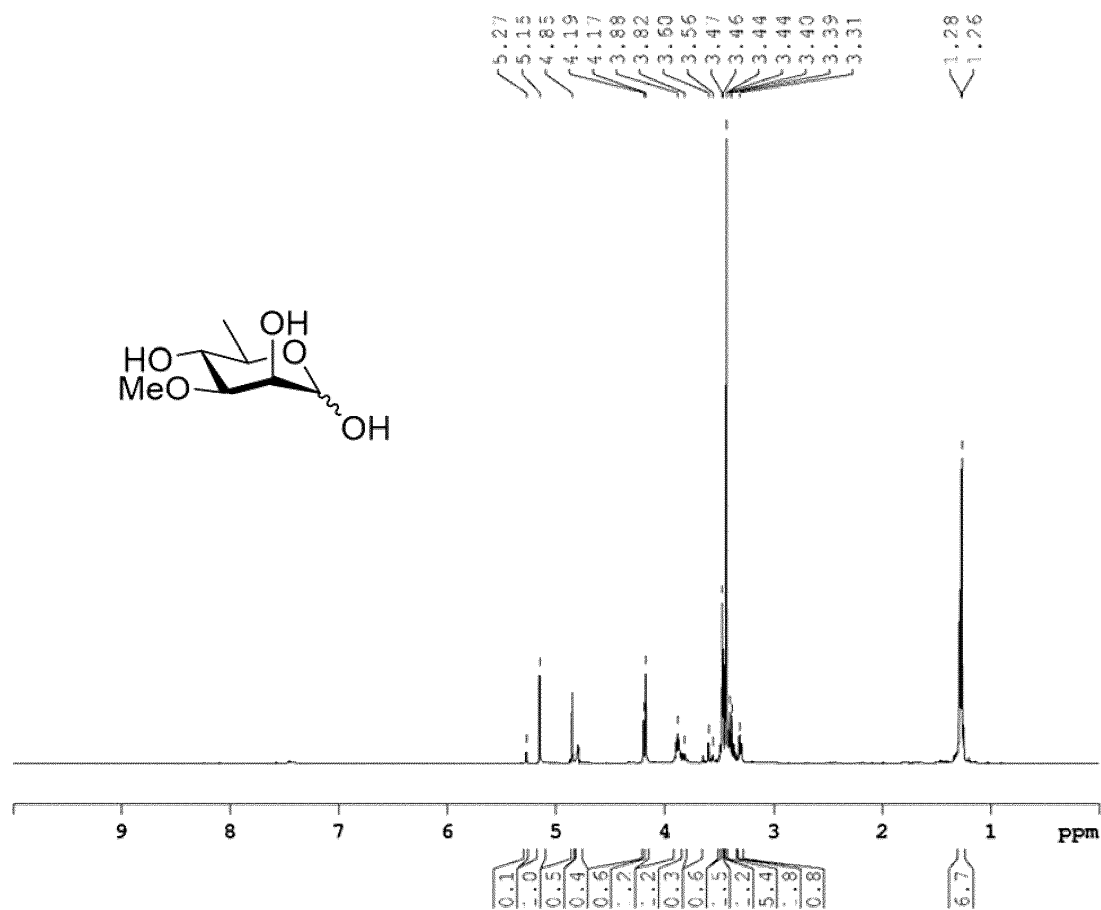


FIG. 5B

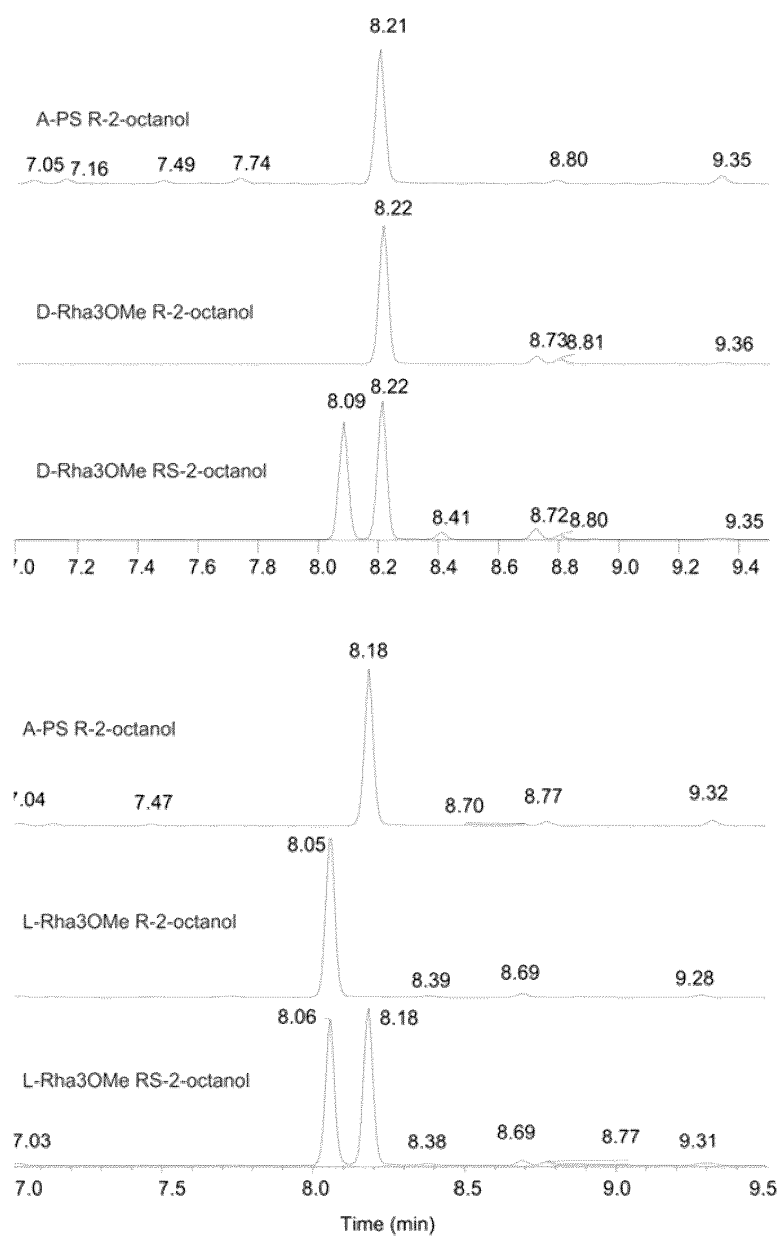


FIG. 6

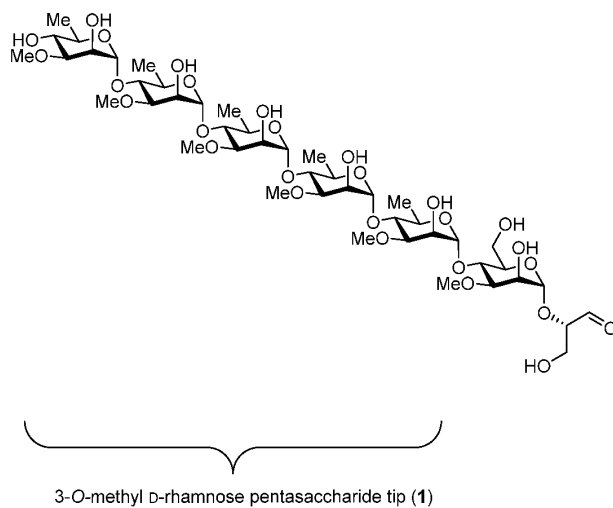


FIG. 7

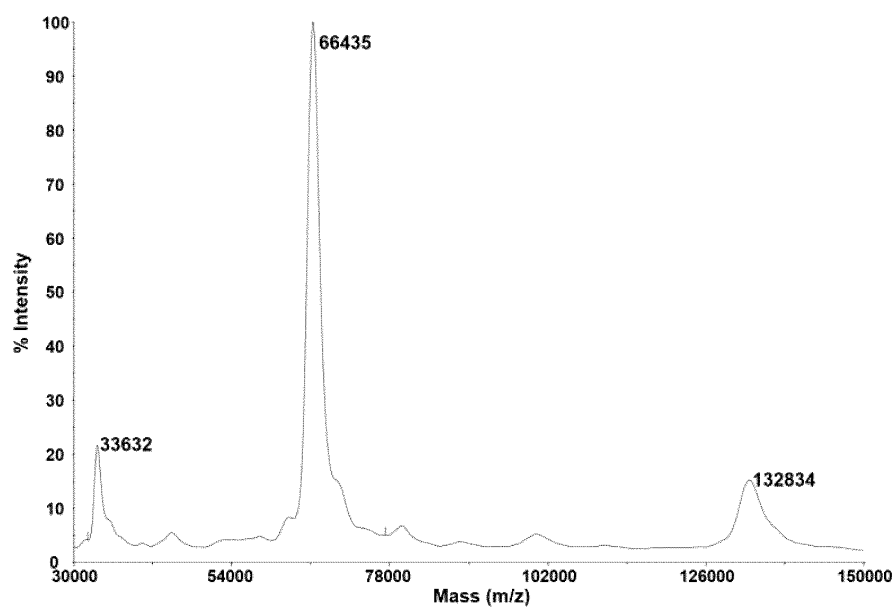


Fig. 8A

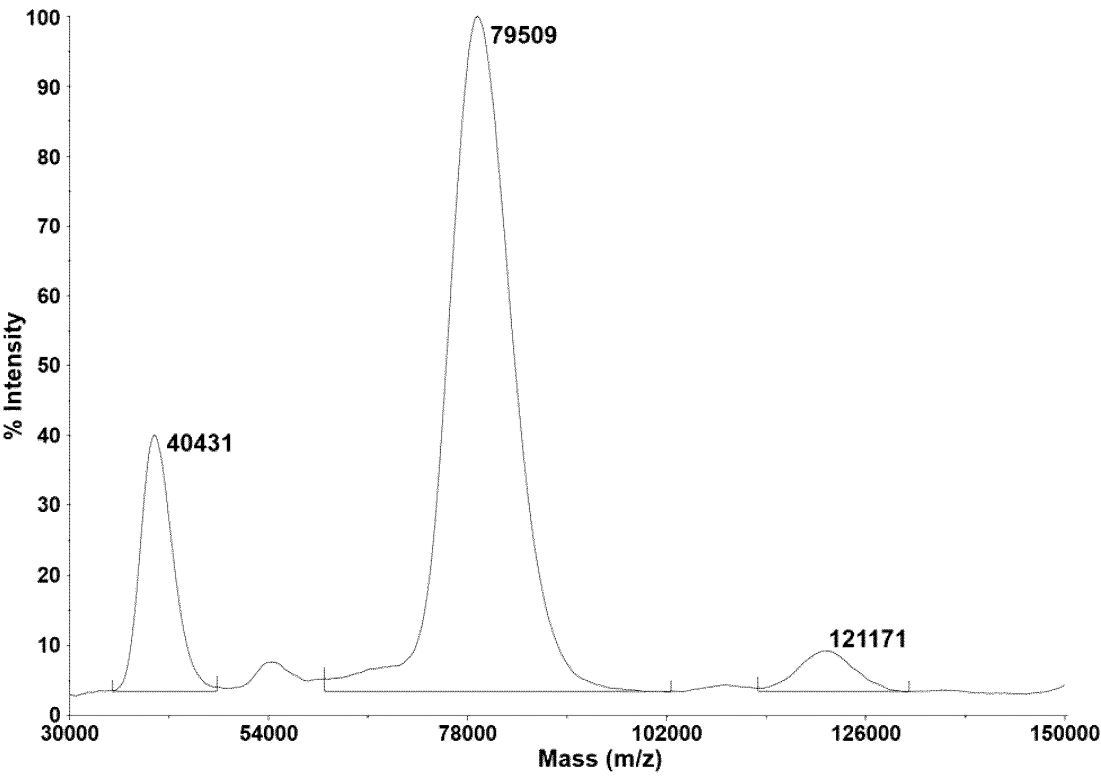


FIG. 8B

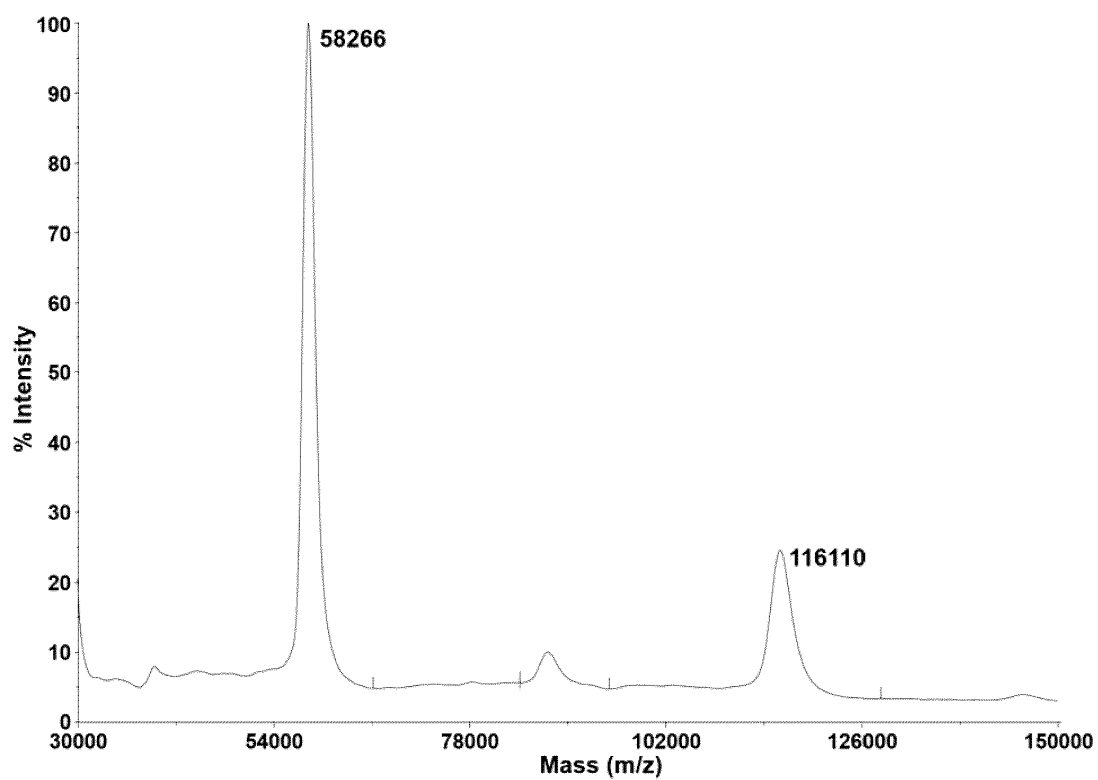


FIG. 8C

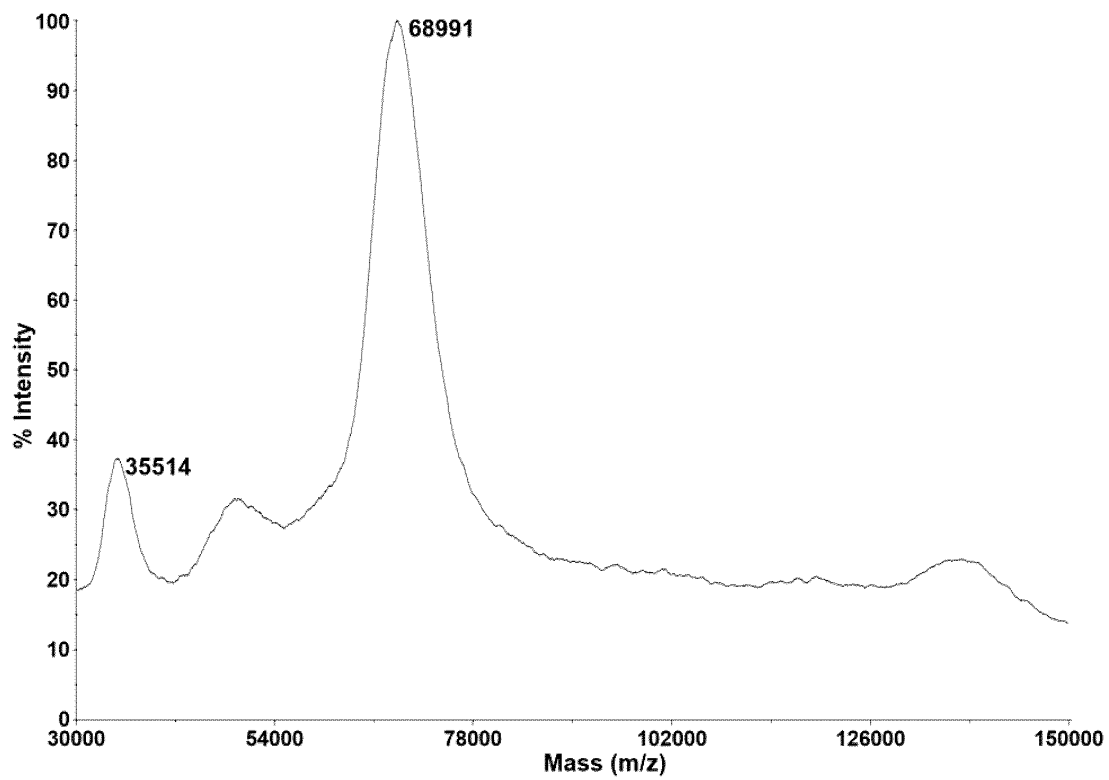


FIG. 8D

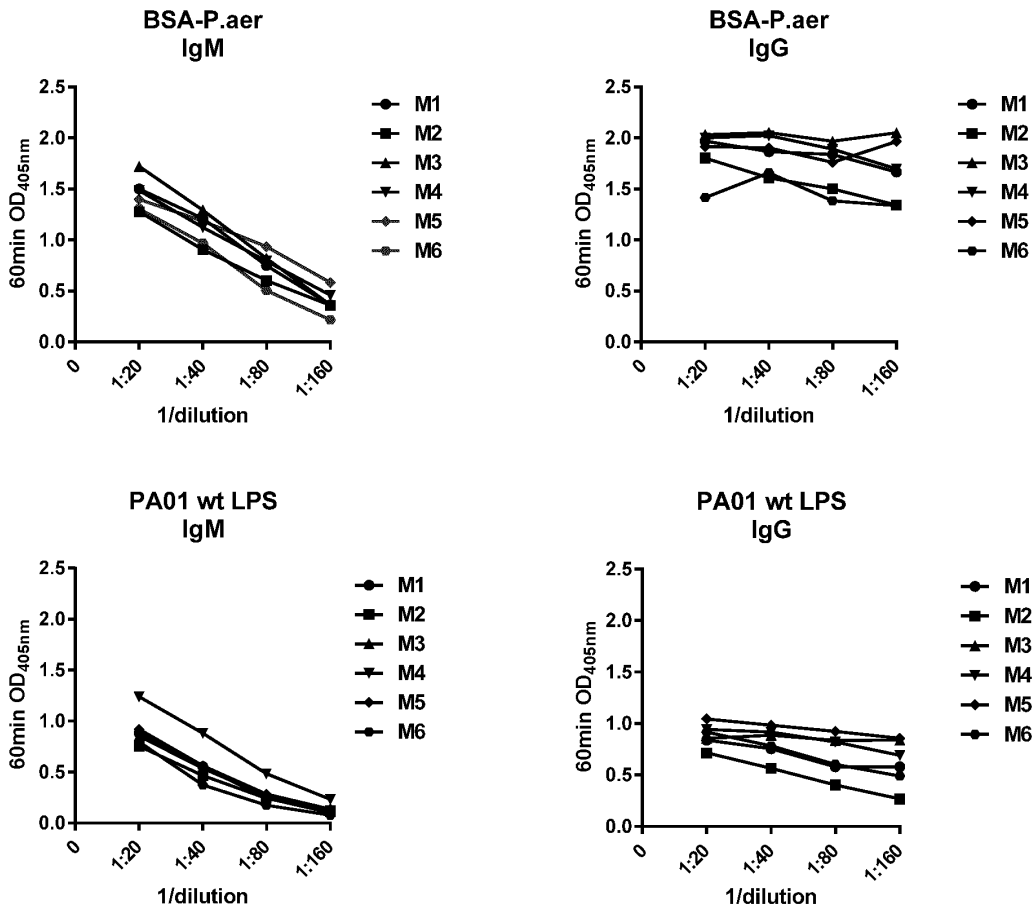


FIG. 9A

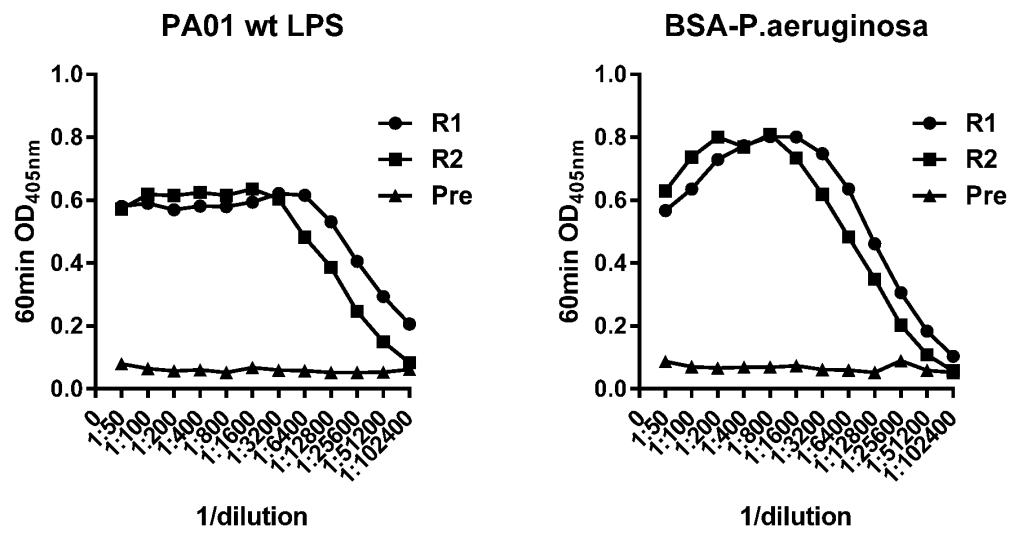


FIG. 9B

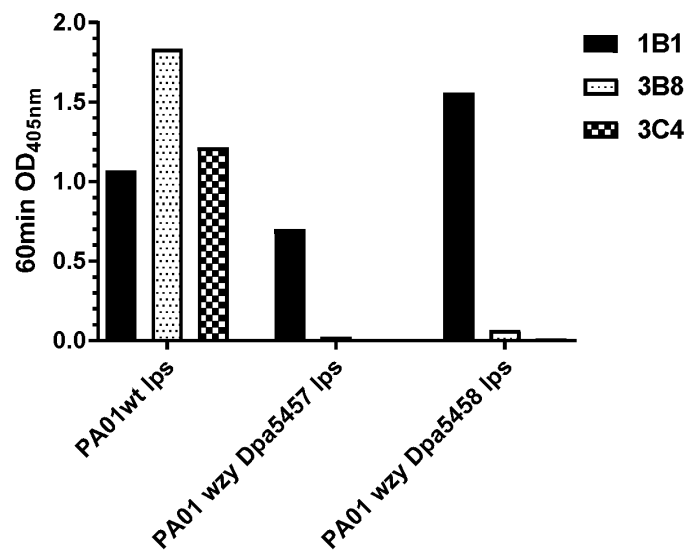


FIG. 10

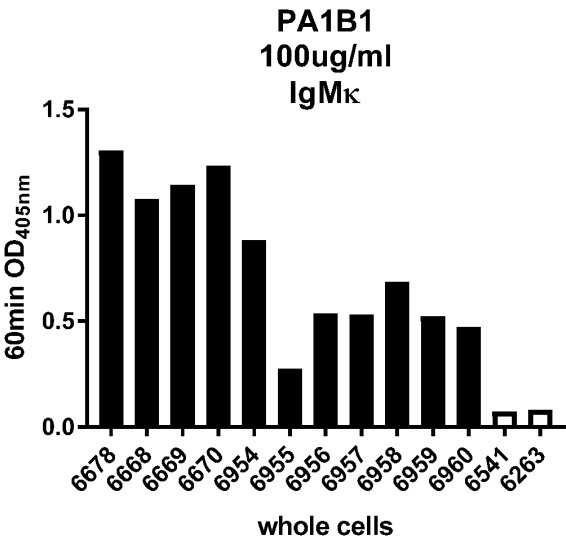


FIG. 11A

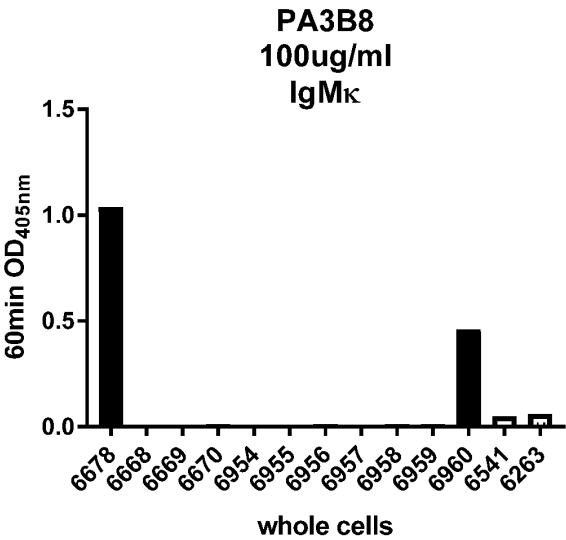


FIG. 11B

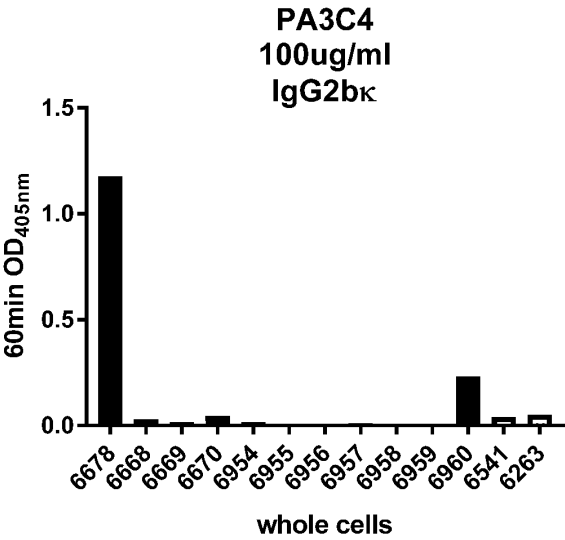


FIG. 11C

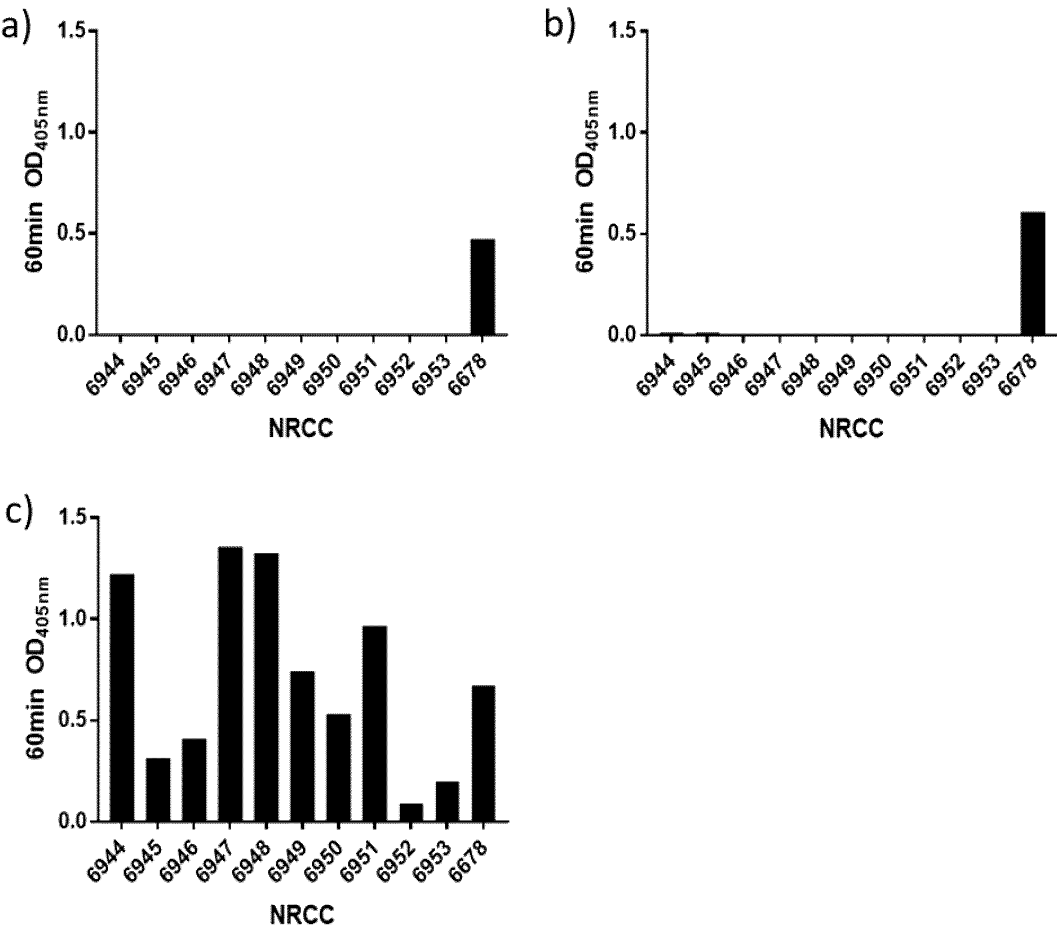


FIG. 12

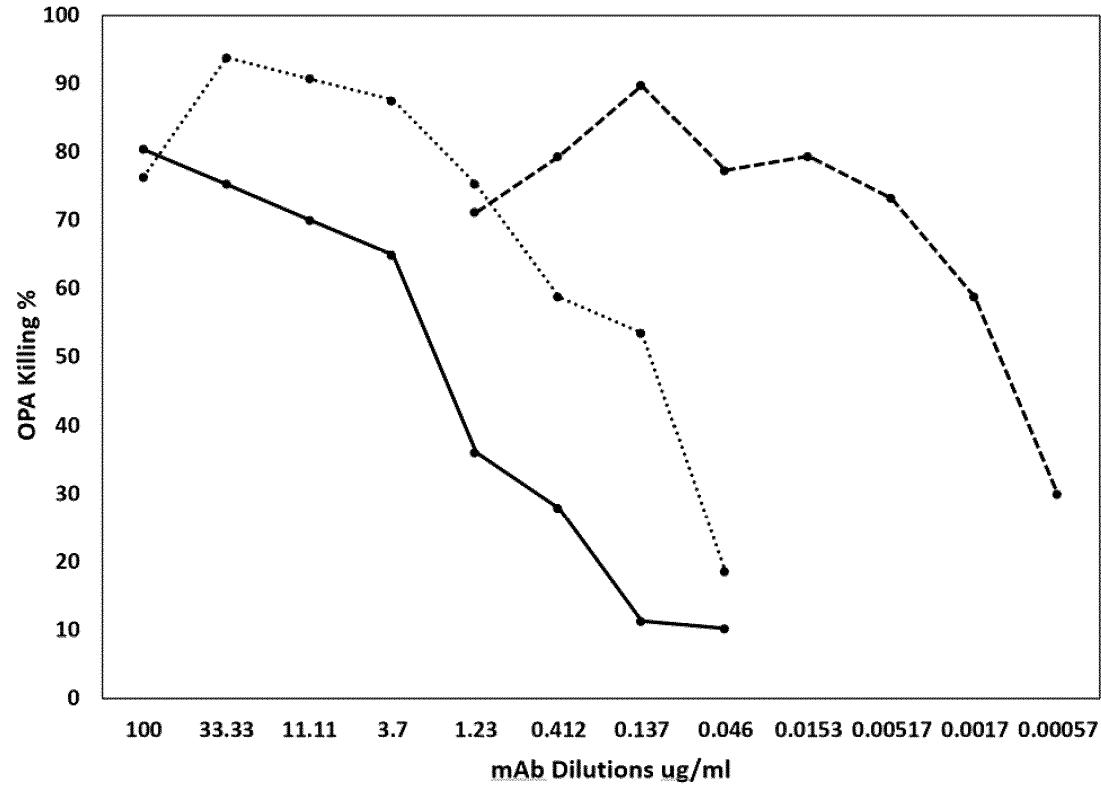


FIG. 13A

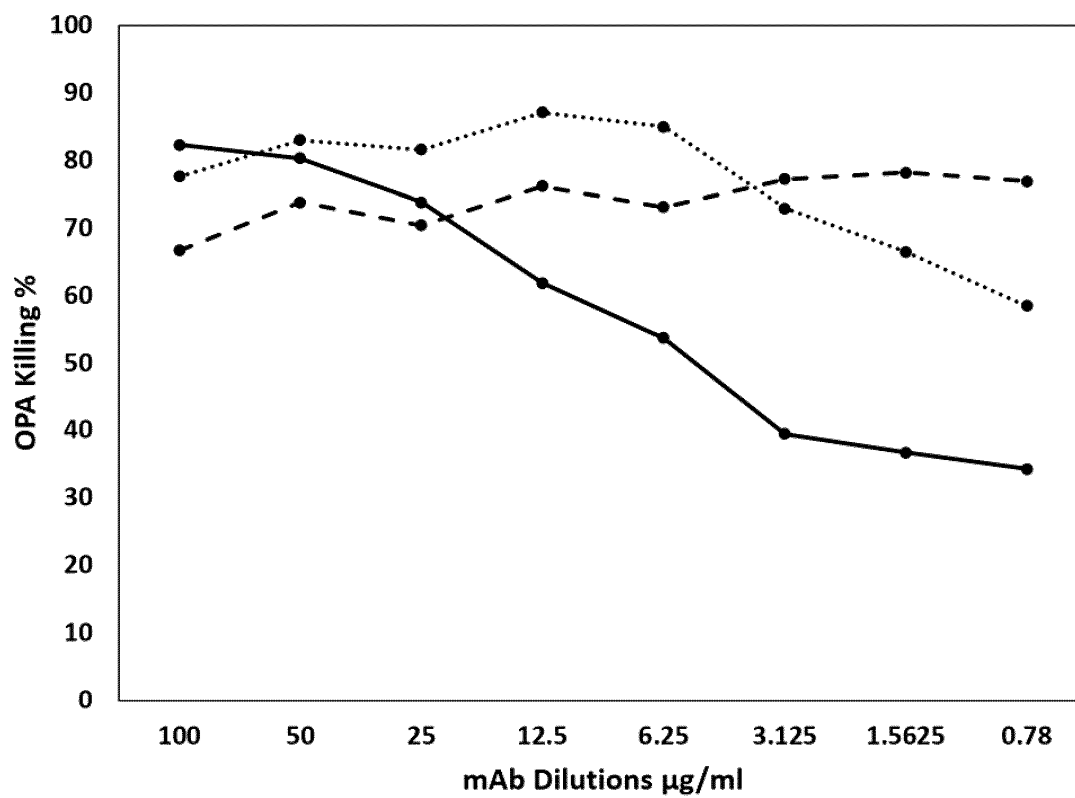


FIG. 13B

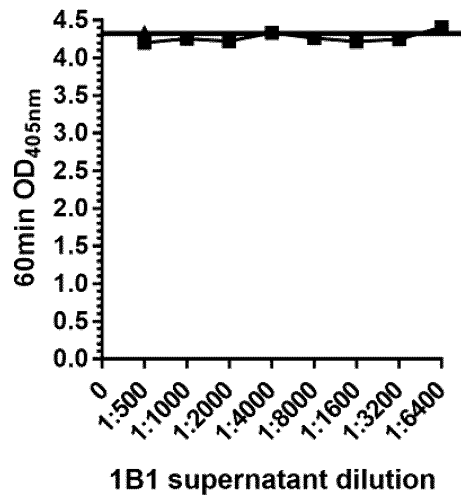


FIG. 14A

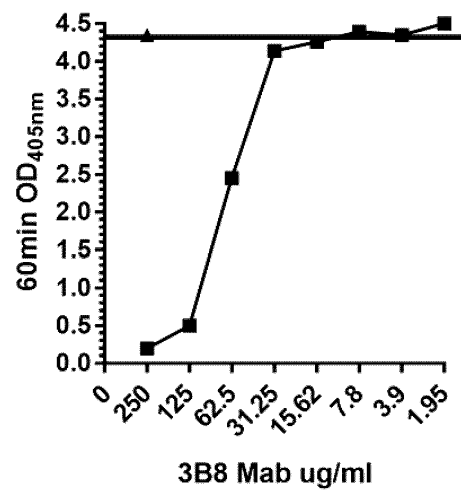


FIG. 14B

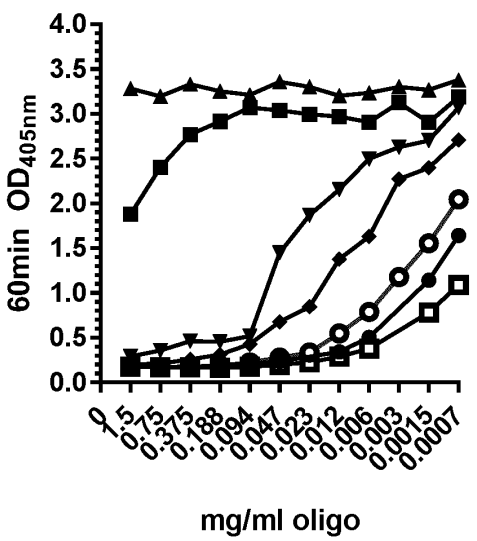
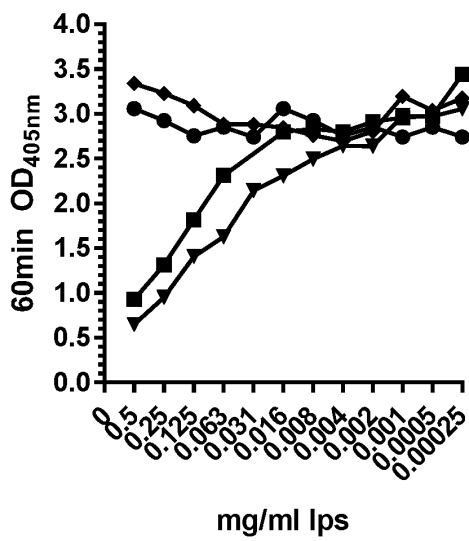


FIG. 15A

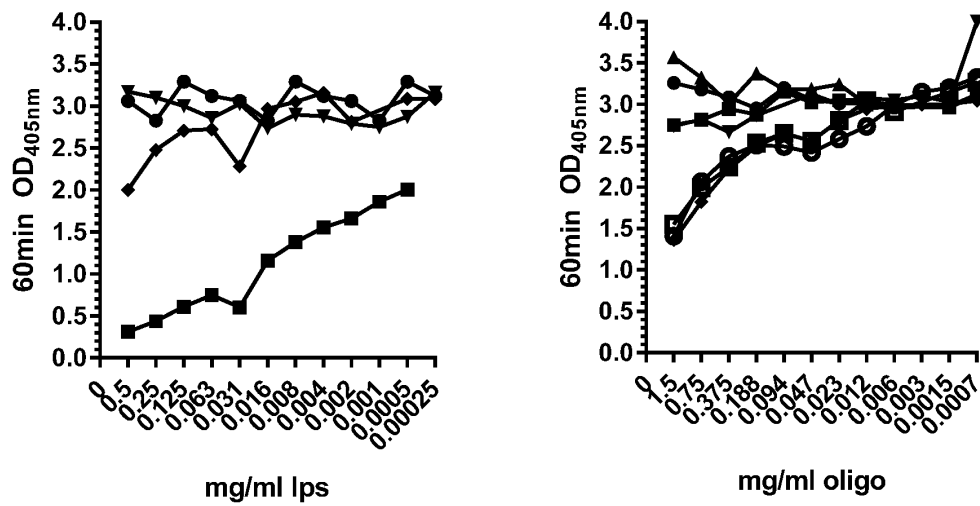


FIG. 15B

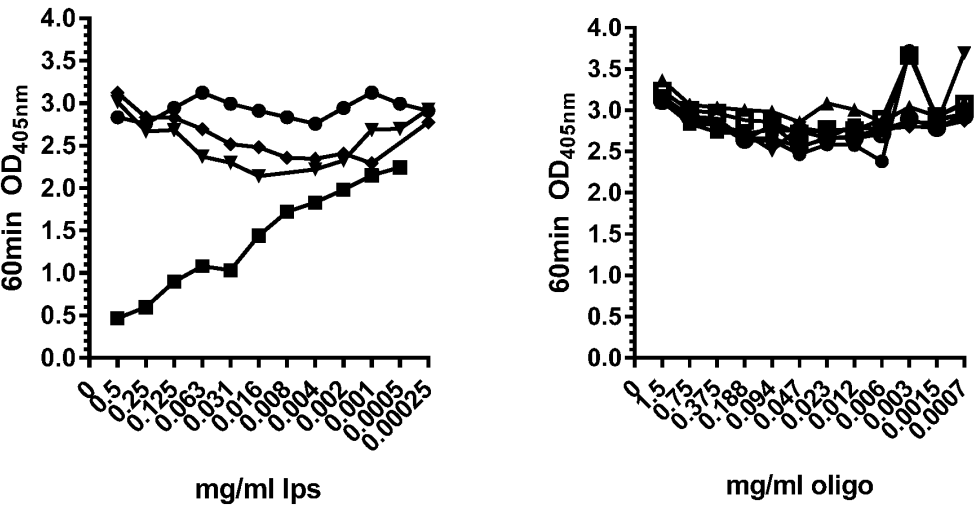


FIG. 15C

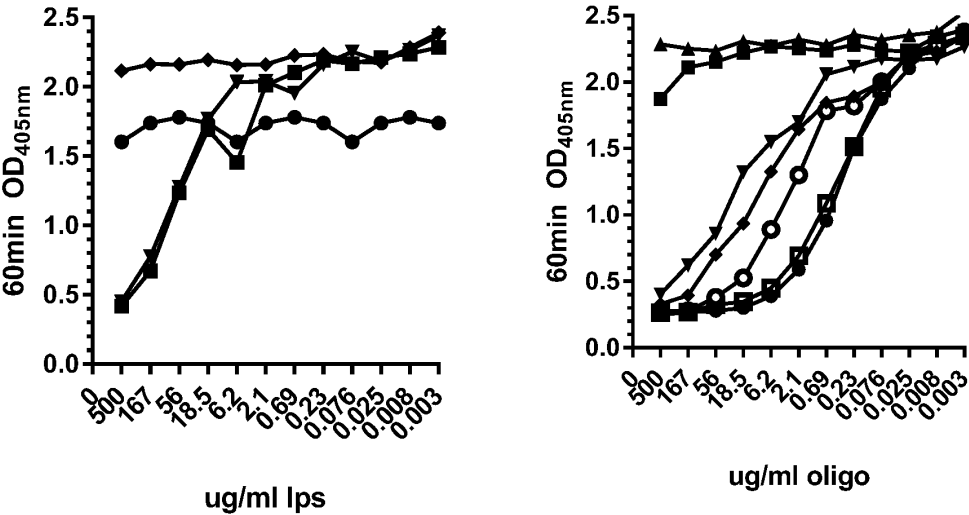


FIG. 15D

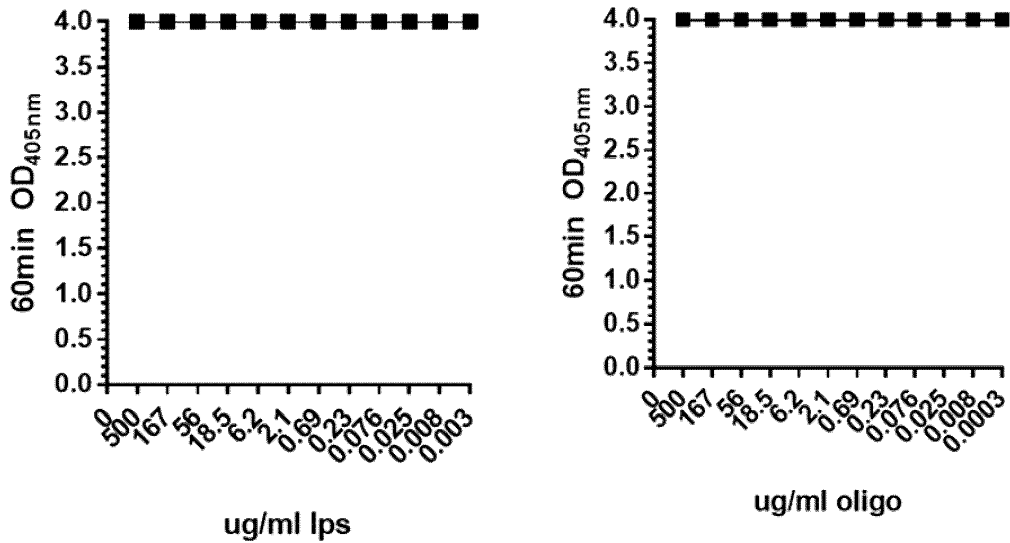


FIG. 15E

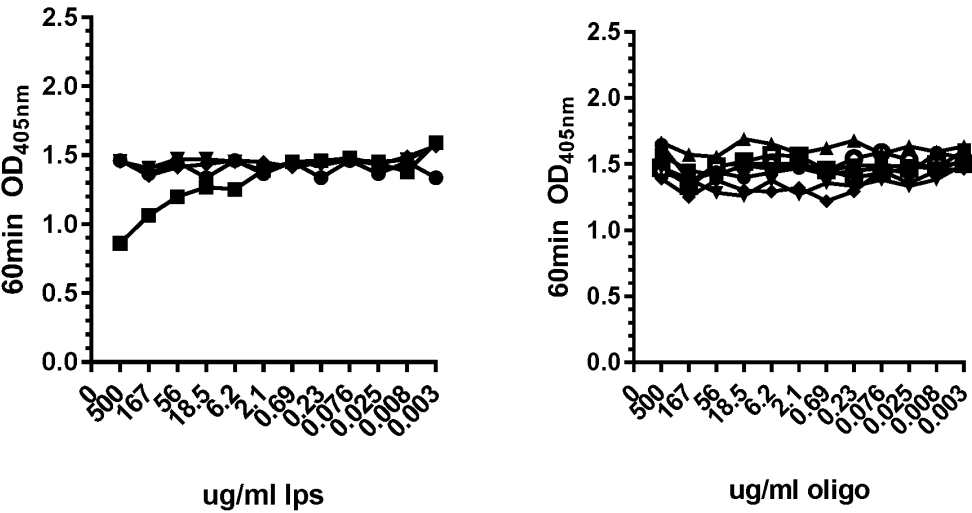


FIG. 15F

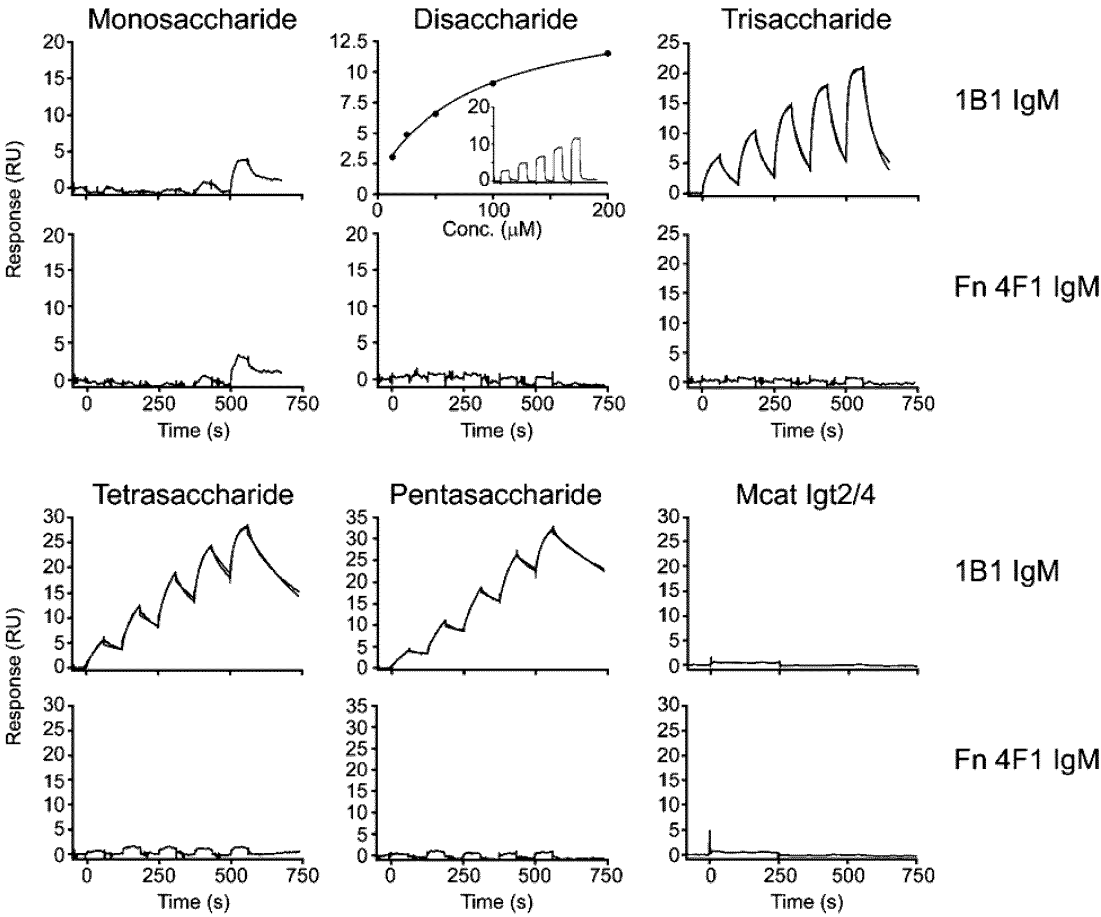


FIG. 16

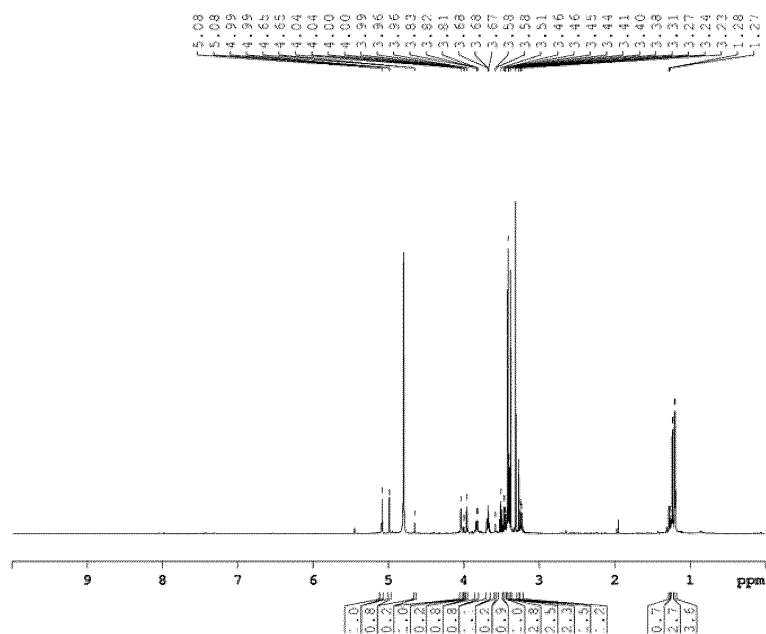


FIG. 17

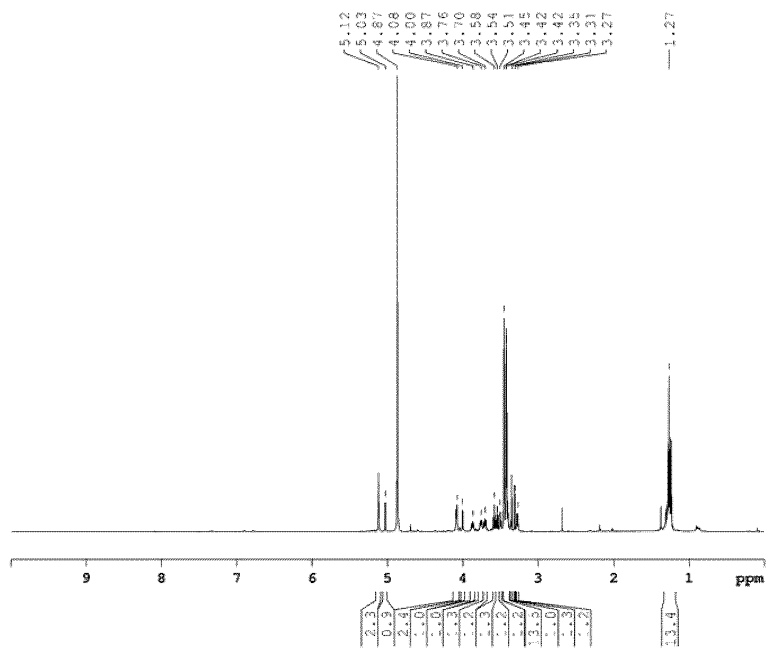


FIG. 18

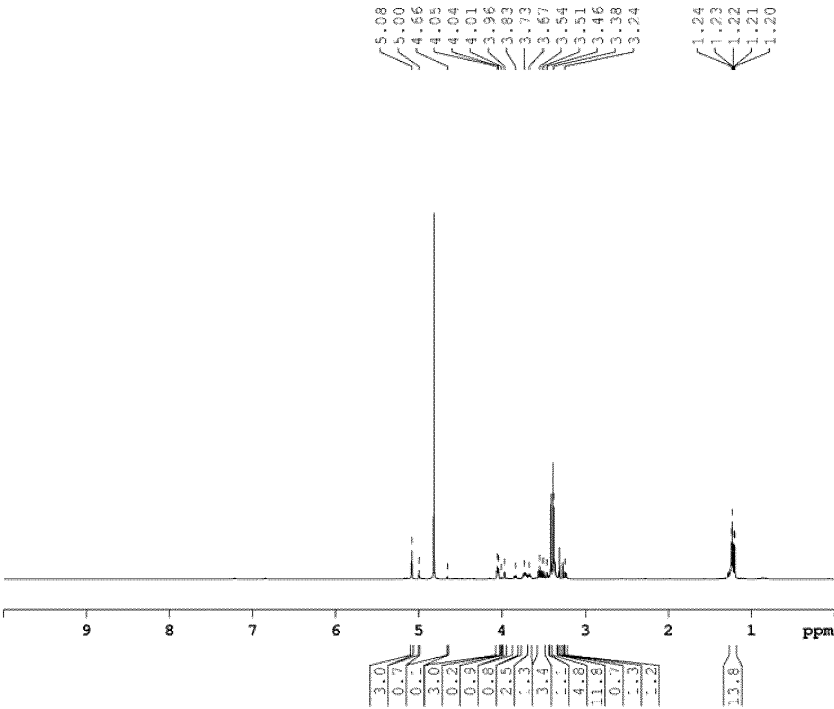


FIG. 19

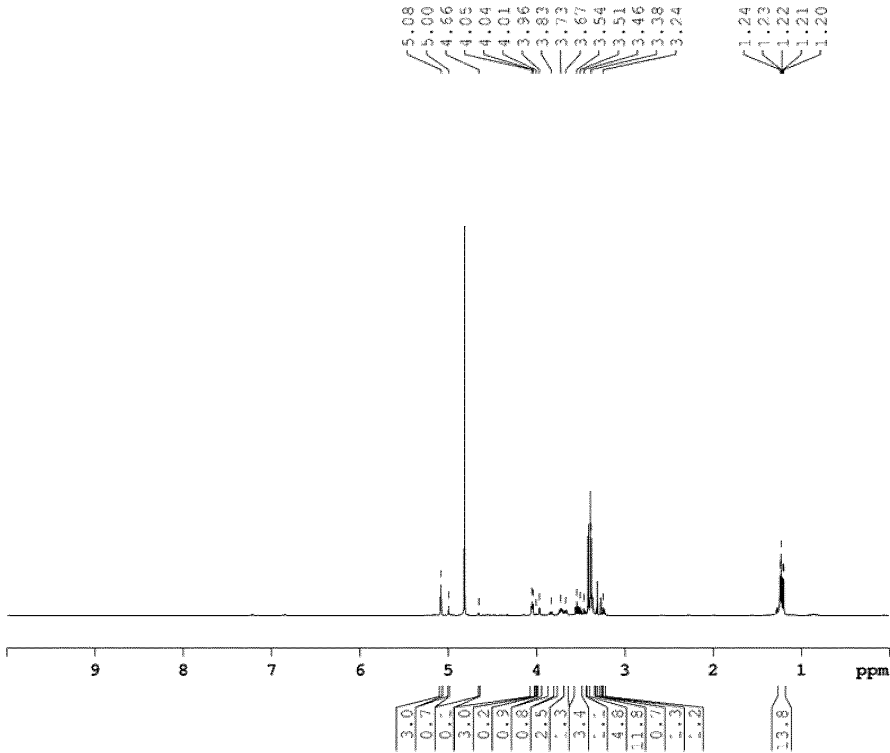


FIG. 20

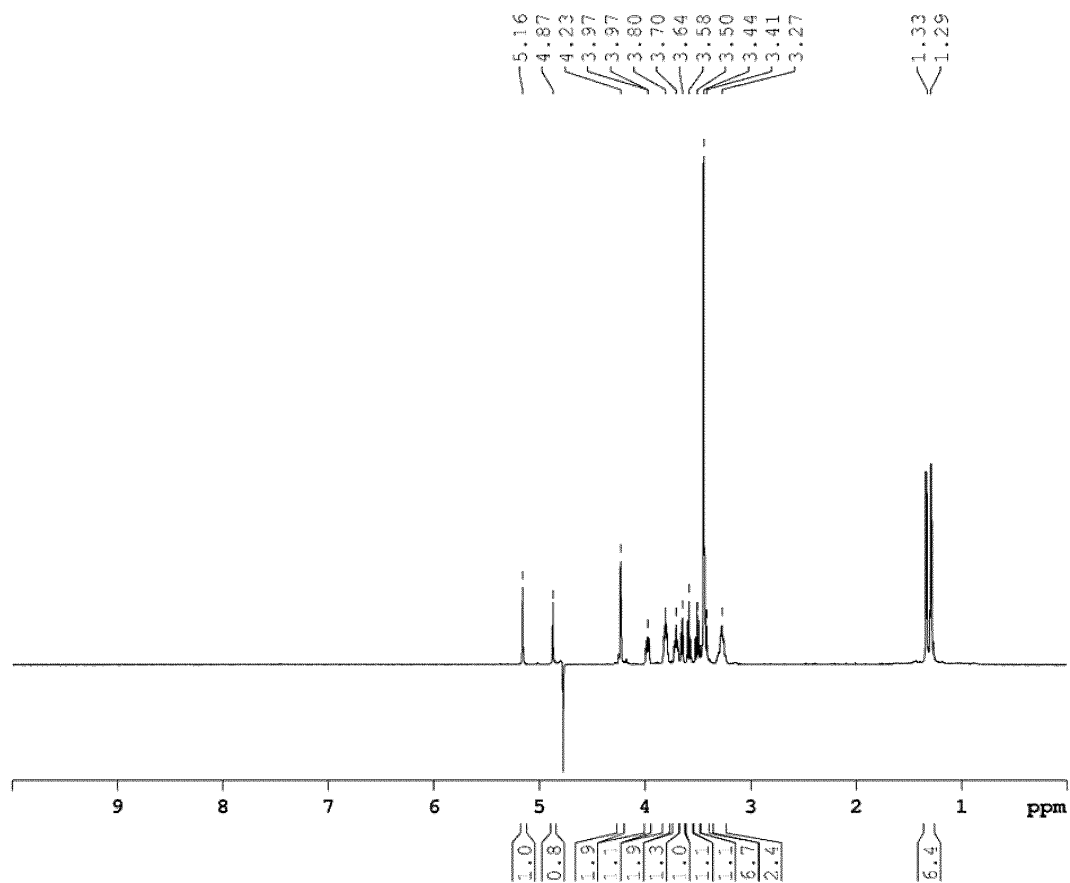
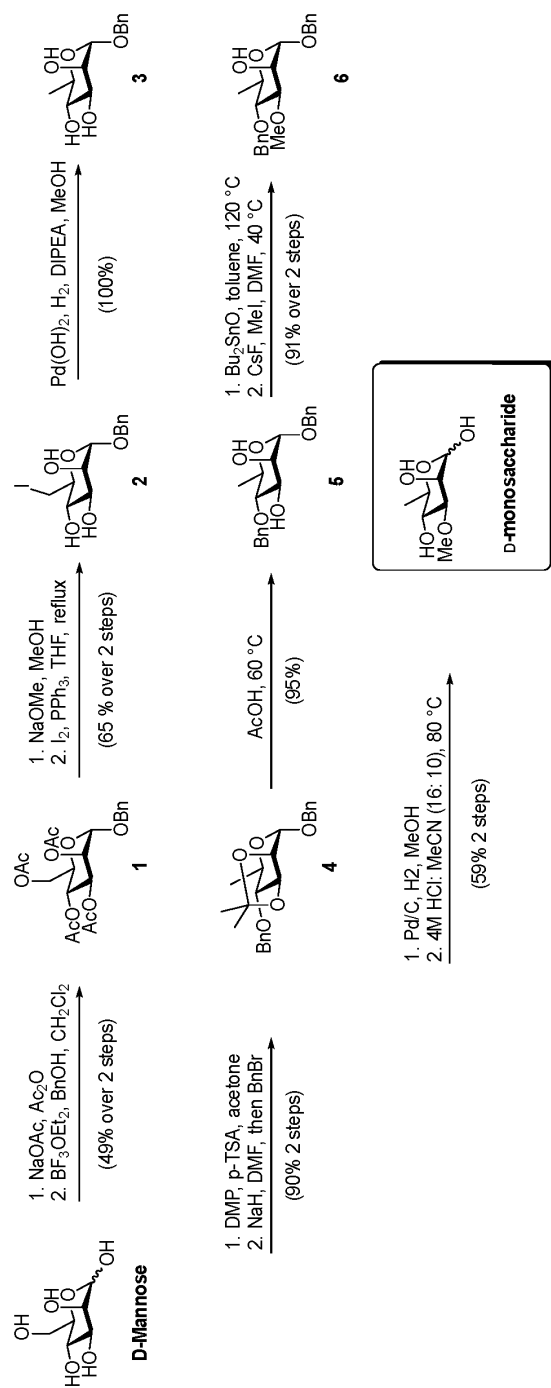
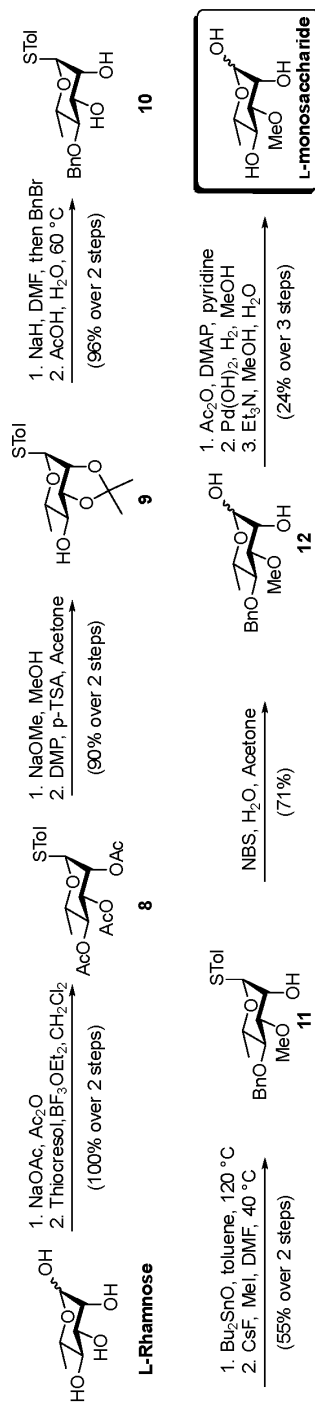


FIG. 21



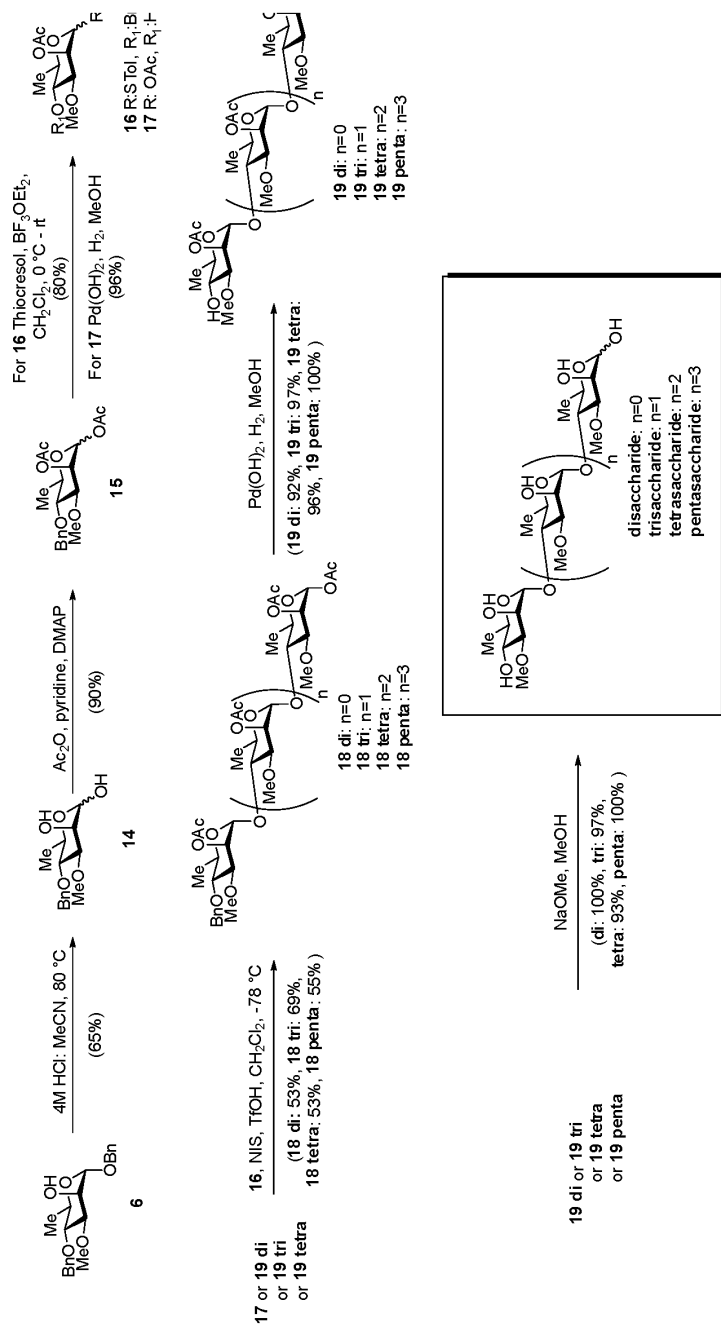
Scheme 1

FIG. 22



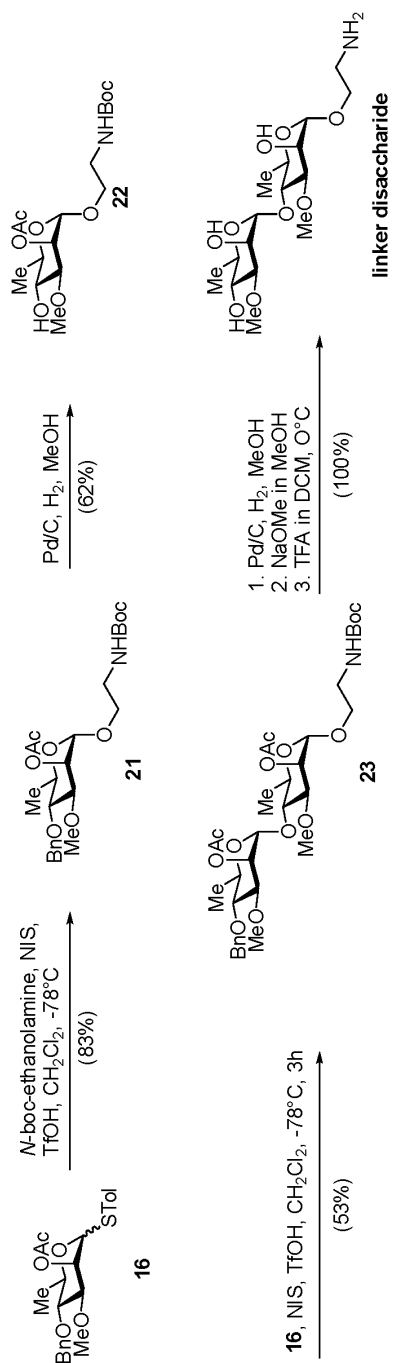
Scheme 2

FIG. 23



Scheme 3

FIG. 24



Scheme 4

FIG. 25

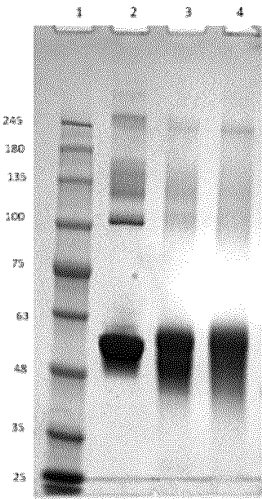


FIG. 26A

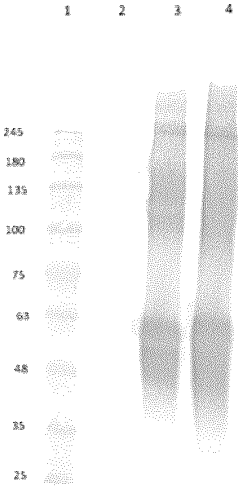


FIG. 26B

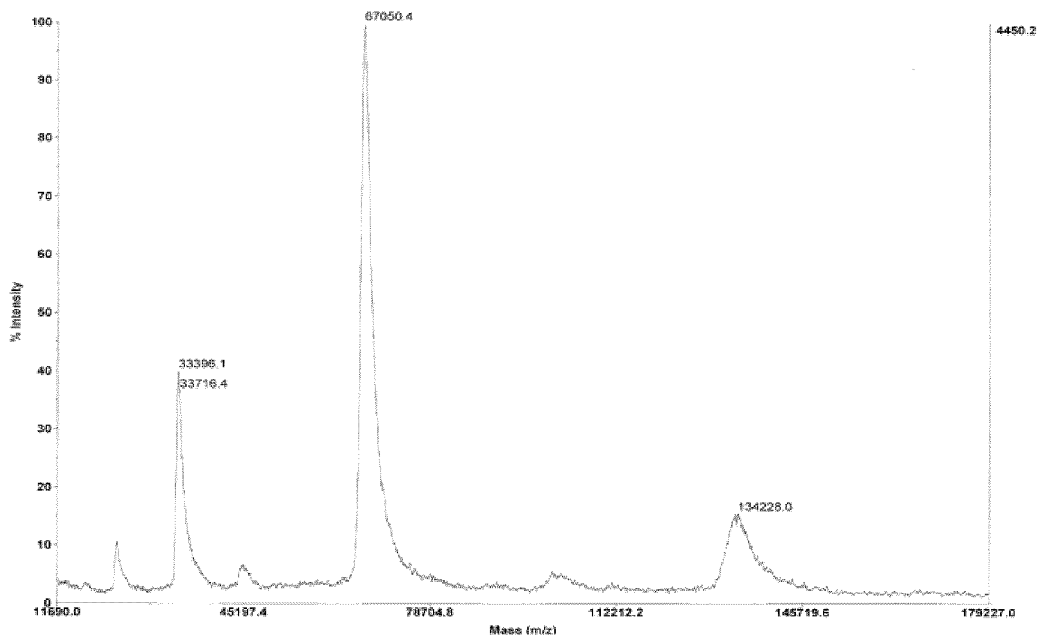


FIG. 27A

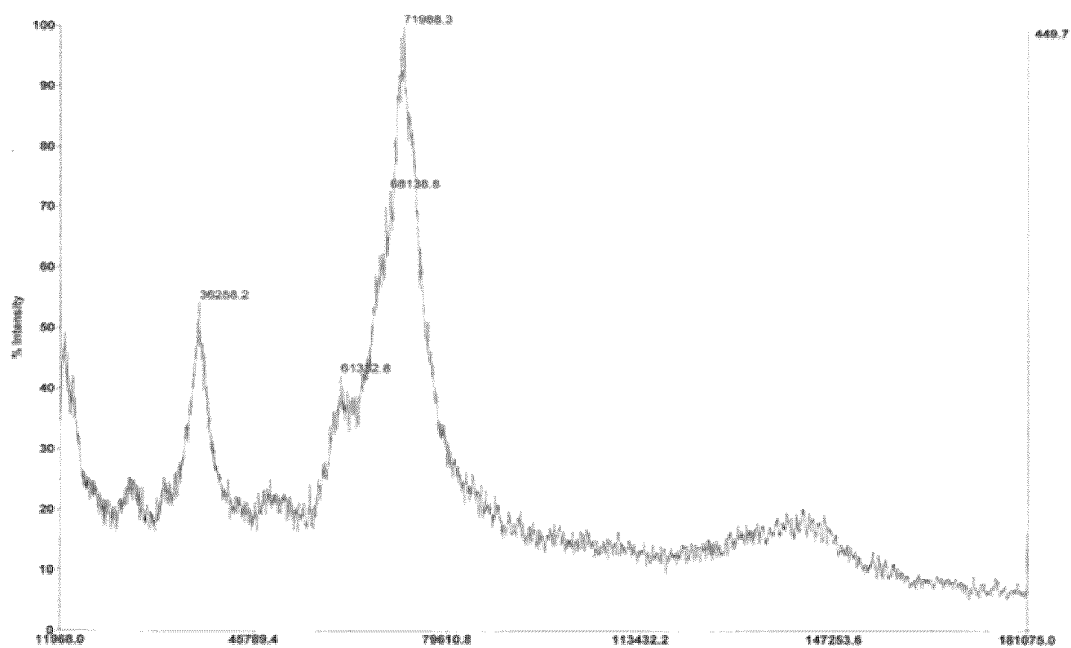


FIG. 27B

Pre, D35 & D42 titration vs PA01 wt LPS
MPa21-06 1-6 *Paeruginosa Rhamnan Penta-HSA*
05.08.21

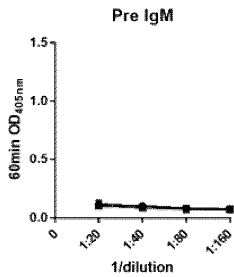


Fig. 28A

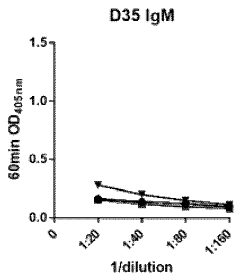


Fig. 28B

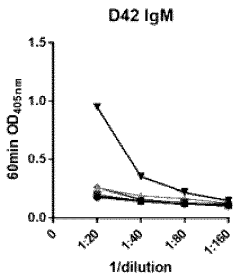


Fig. 28C

Pre, D35 & D42 titration vs PA01 wt LPS
MPa21-06 1-6 *Paeruginosa Rhamnan Penta-HSA*
05.08.21

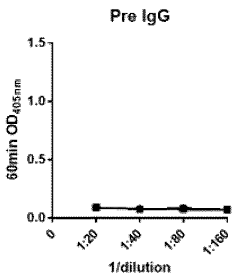


Fig. 28D

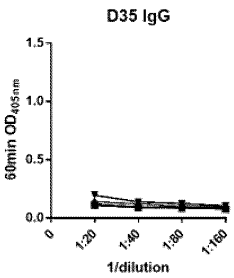


Fig. 28E

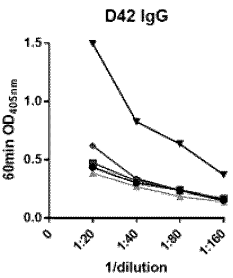


Fig. 28F

D49 titration vs PA01 wt LPS
MPa21-06 1-6 *Paeruginosa Rhamnan Penta-HSA*
17.08.21

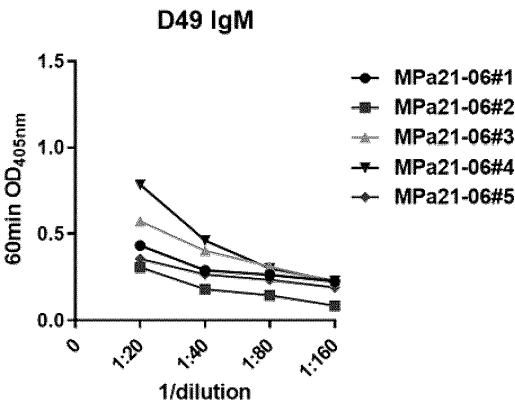


Fig. 28G

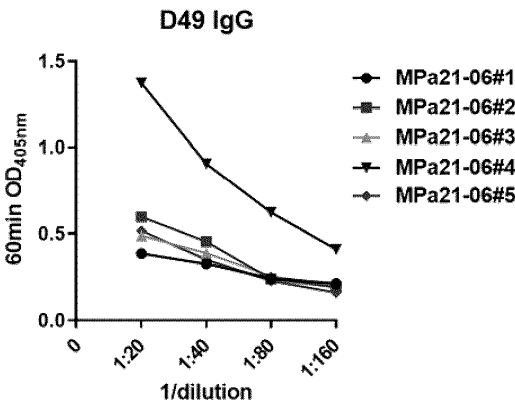


Fig. 28H

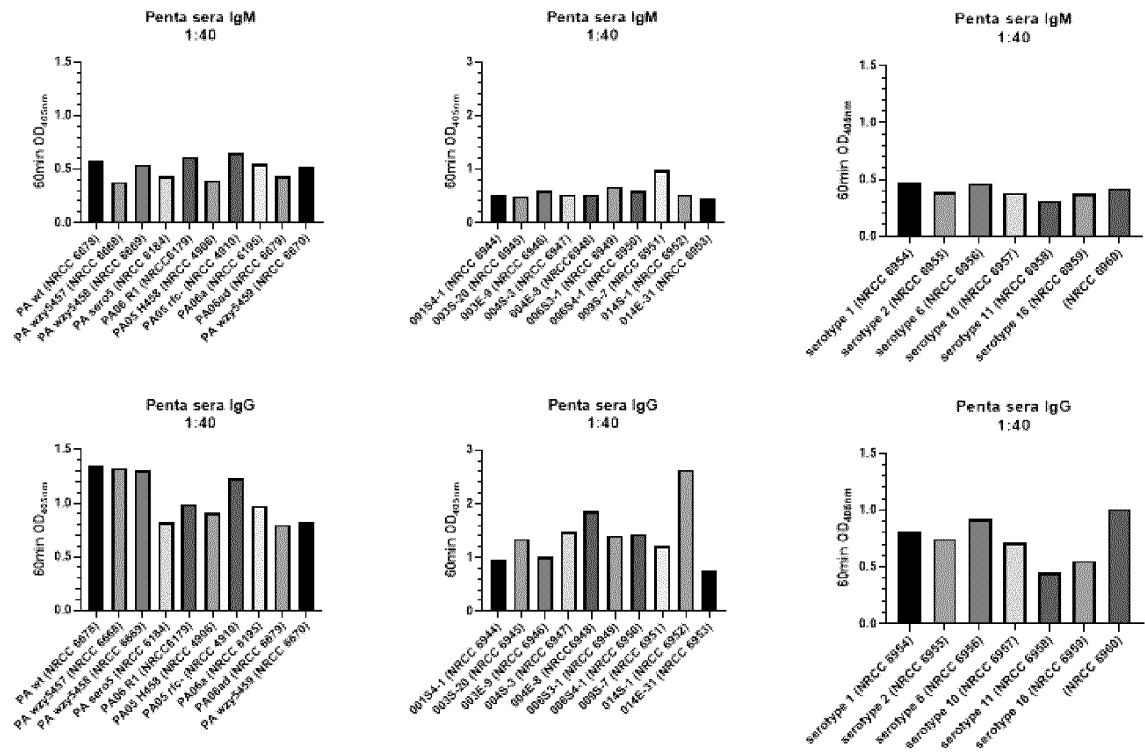


FIG. 29

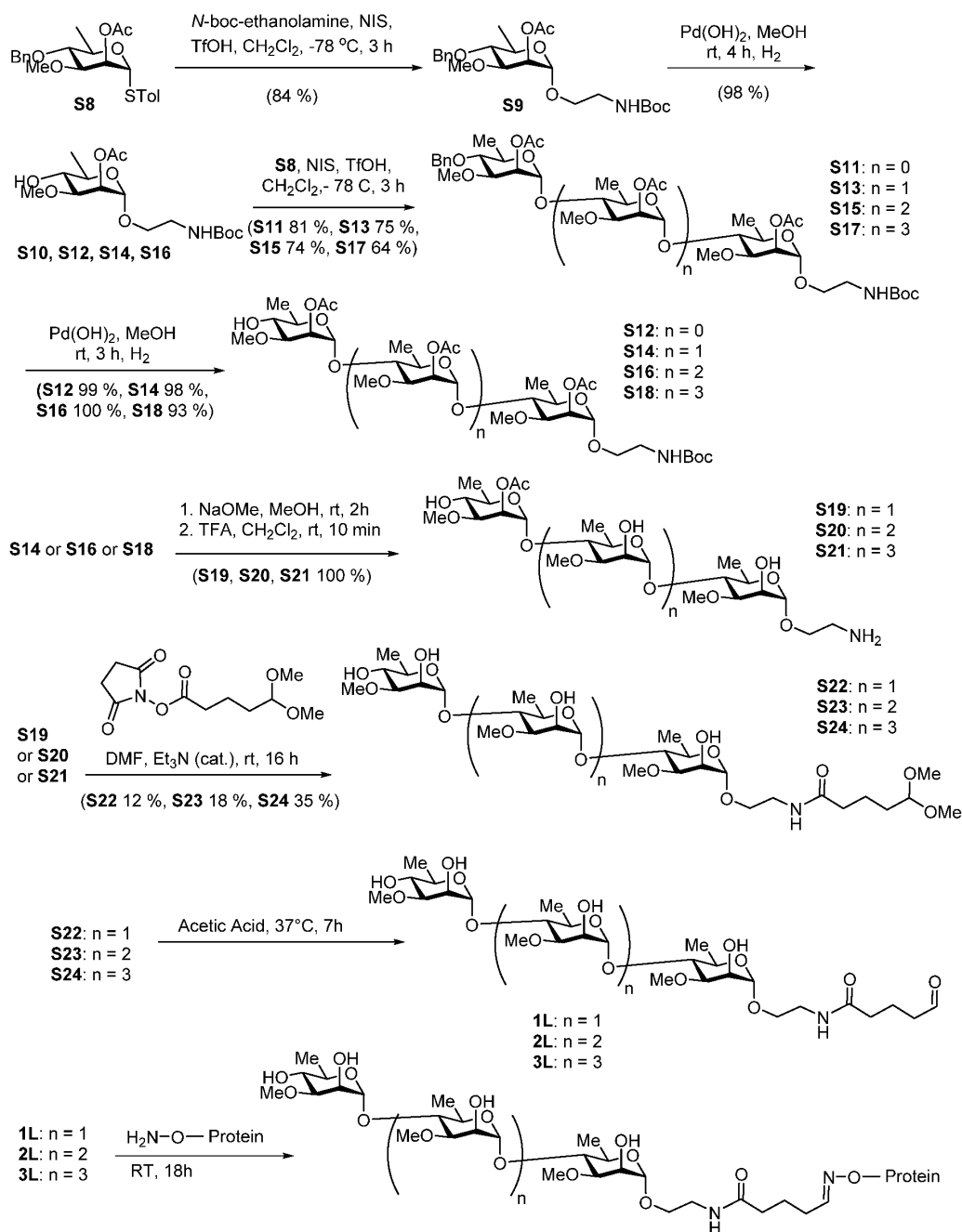


FIG. 30

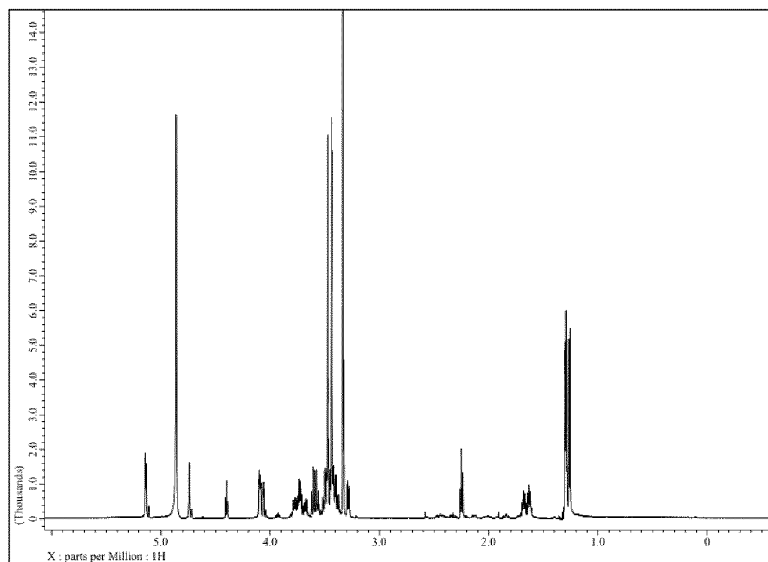


FIG. 31A

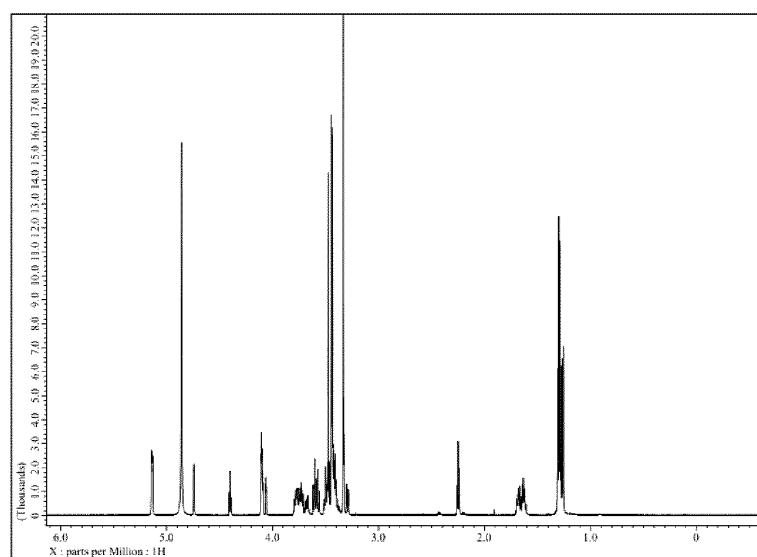


FIG. 31B

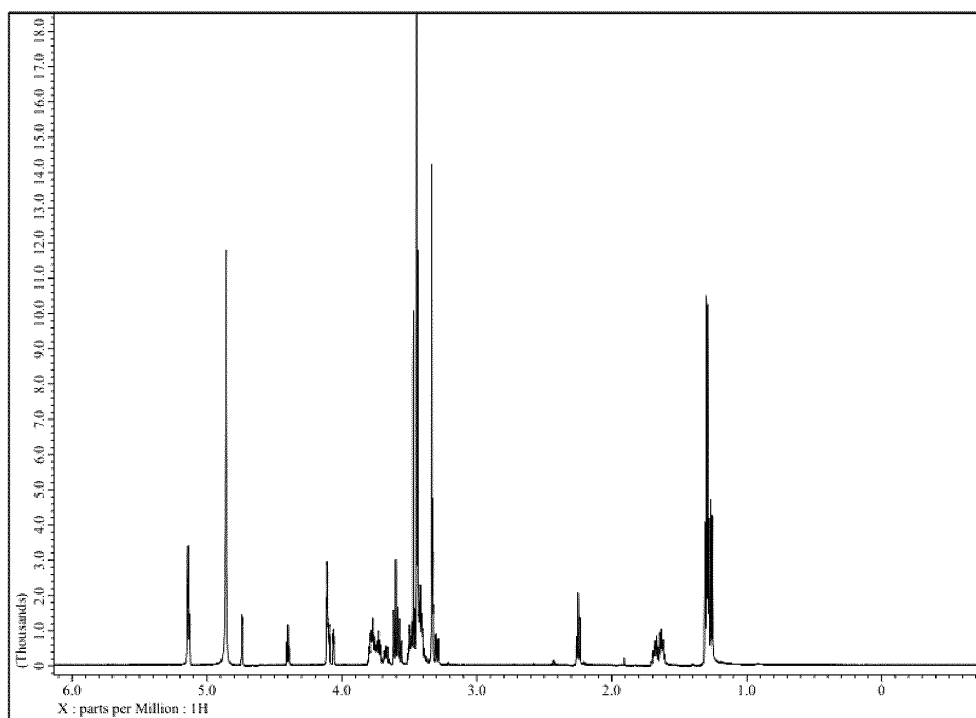


FIG. 32

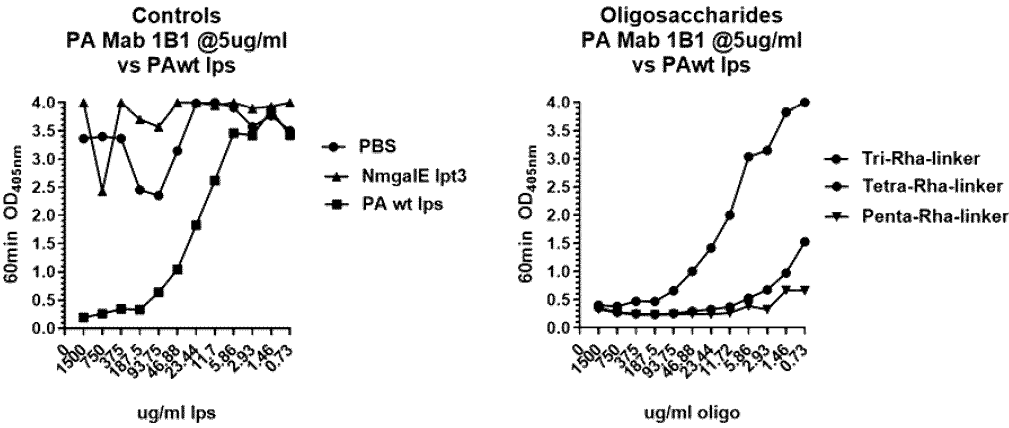


FIG. 33

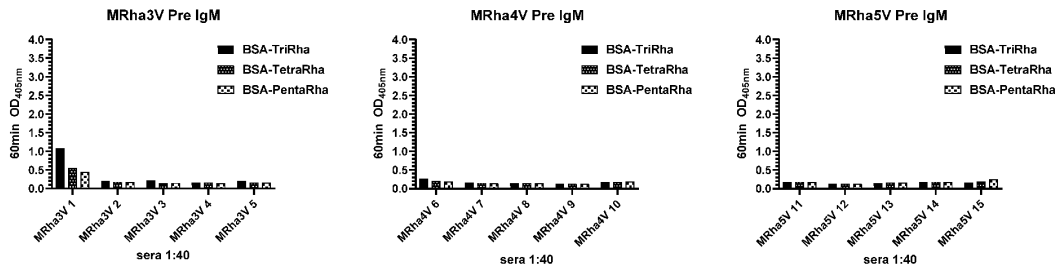


FIG. 34A

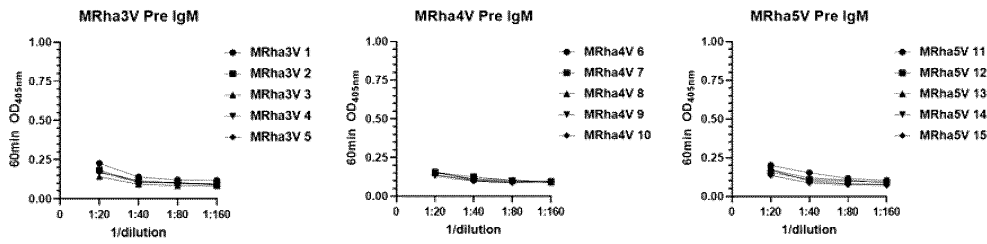


FIG. 34B

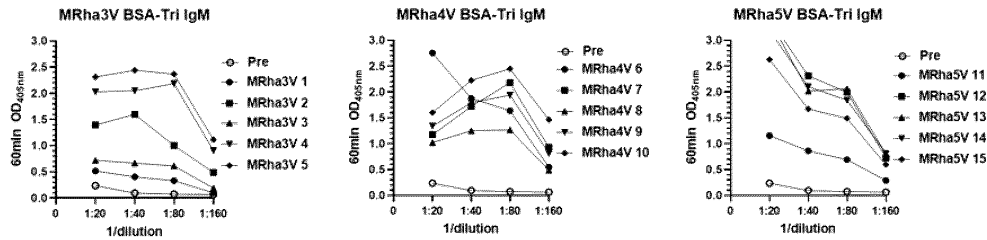


FIG. 35A

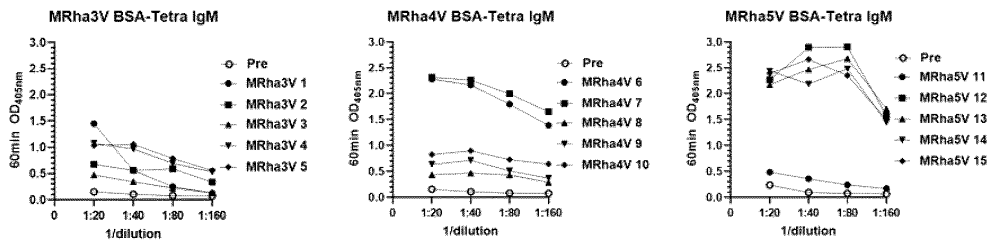


FIG. 35B

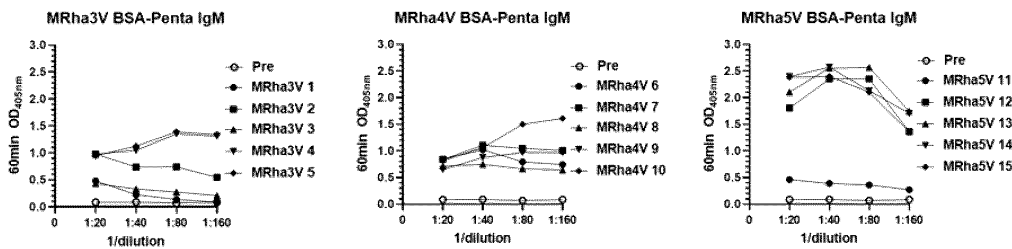


FIG. 35C

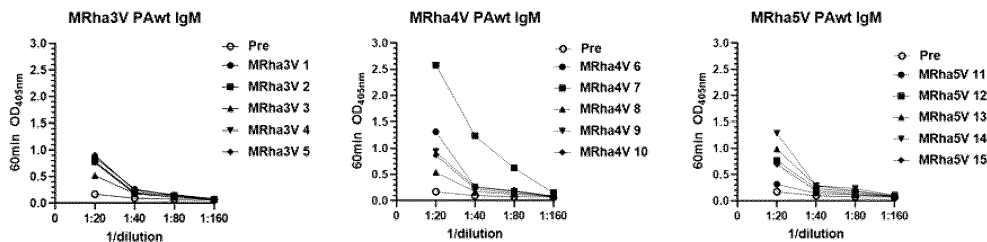


FIG. 35D

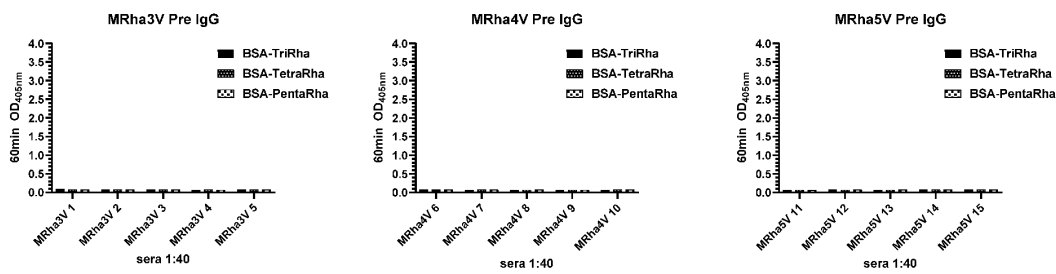


FIG. 36A

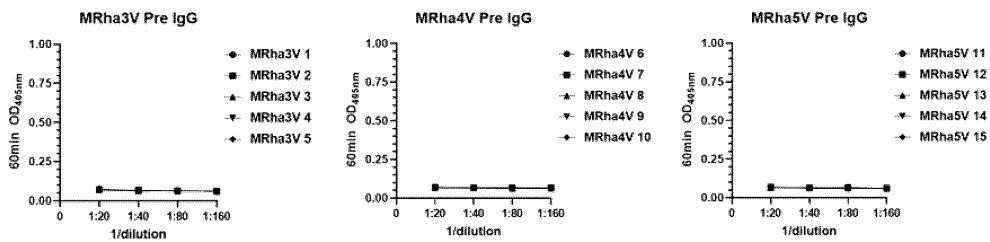


FIG. 36B

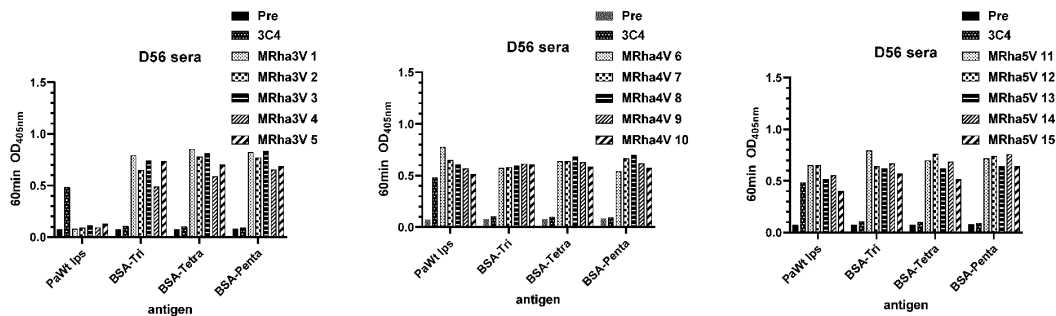


FIG. 37A

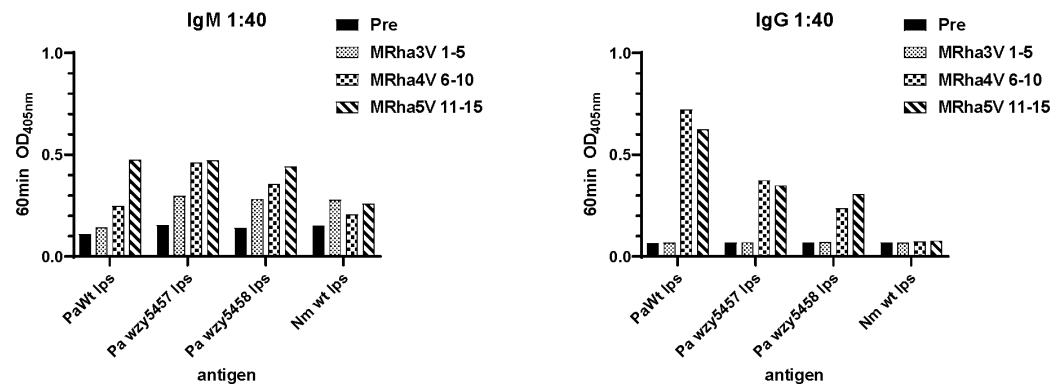


FIG. 37B

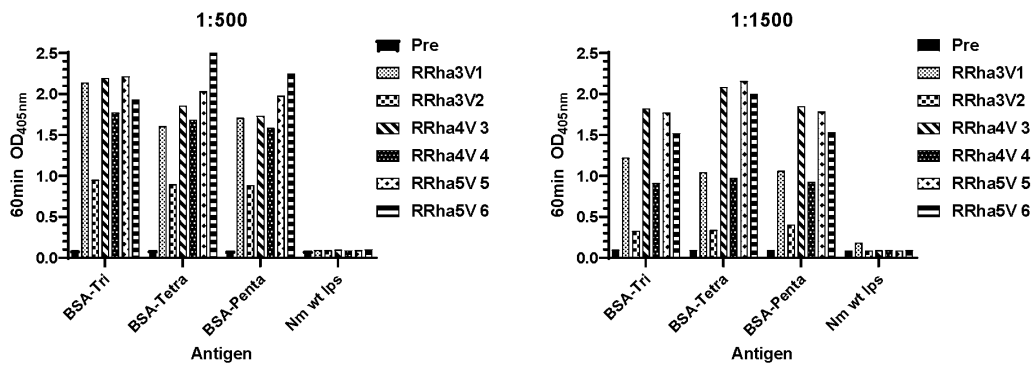


FIG. 38A

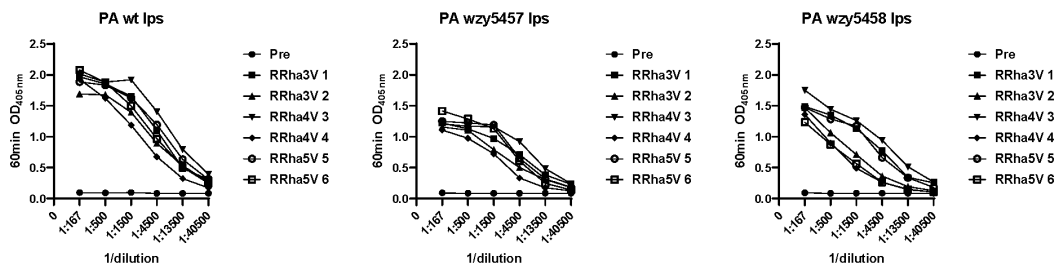


FIG. 38B

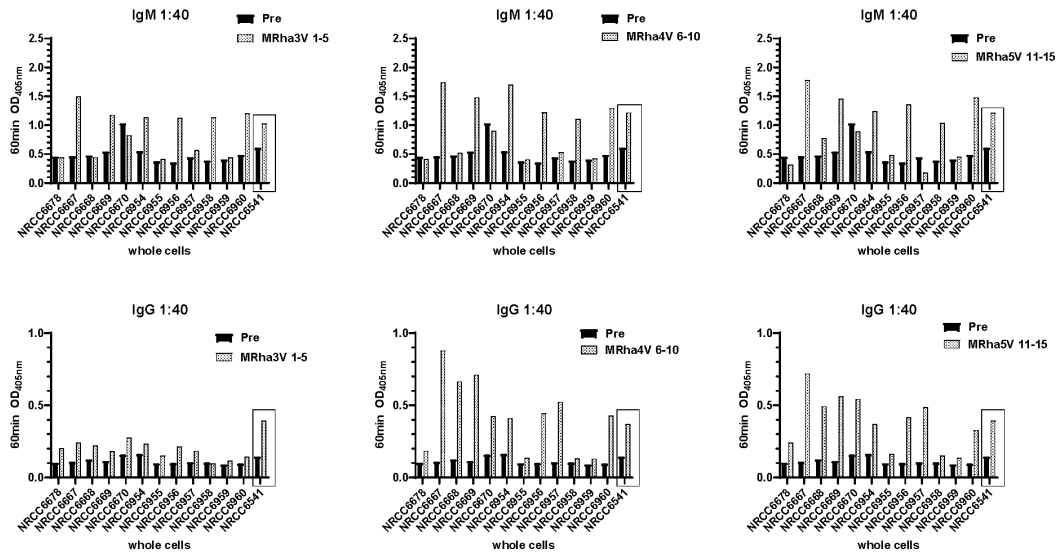


FIG. 39A

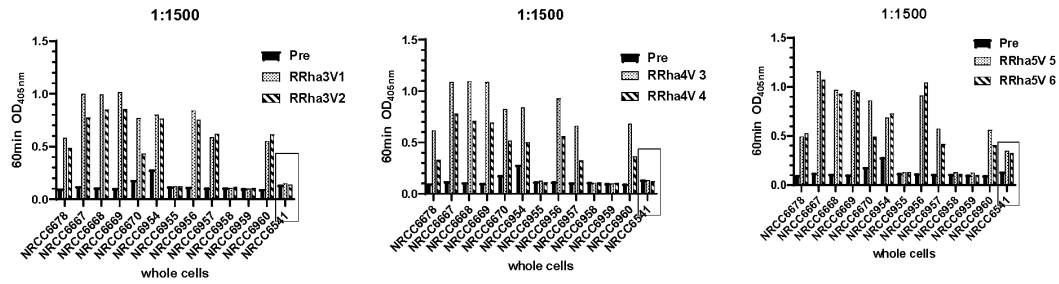


FIG. 39B

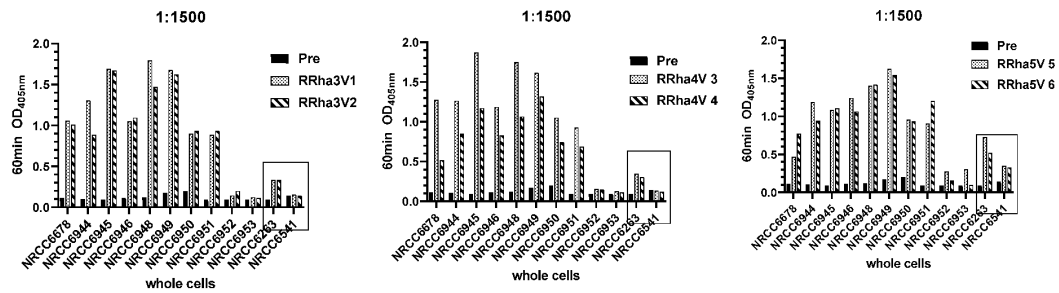


FIG. 39C