

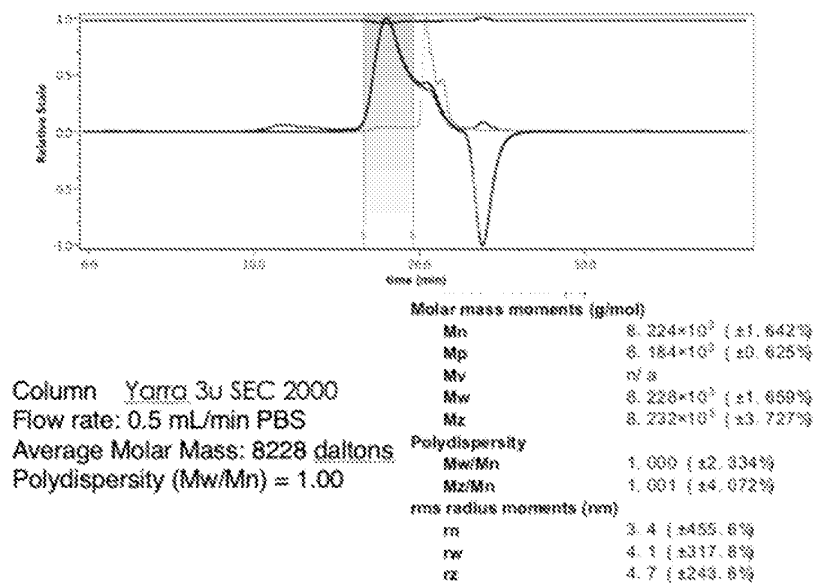


FIG. 1

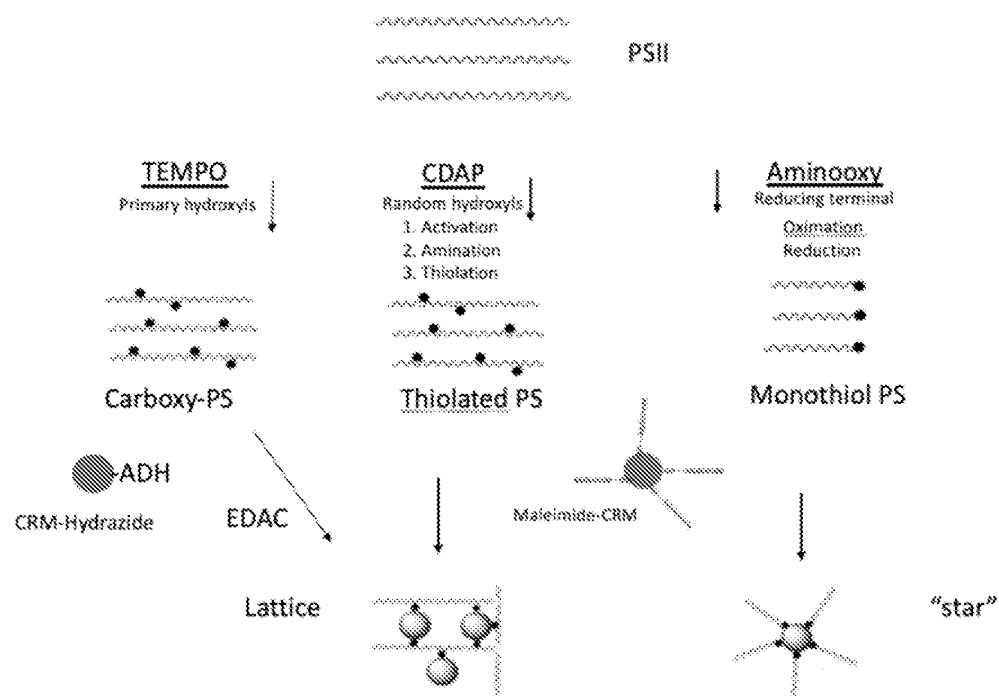
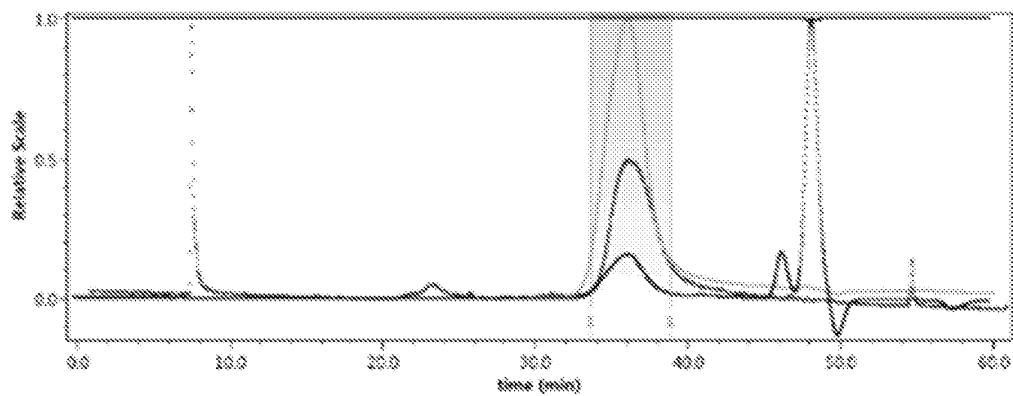


FIG. 2



Method	Protein	PSII
SEC MALS	0.51 mg/ml	0.24 mg/ml
OD280	2.1 mg/ml	
Resorcinol		1.2 mg/ml

MW 328.7 kDa ~ 0.5 mg PSII/mg CRM

100µl injection	
Peak 1	
Masses	
Calculated Mass (µg)	75.69
Protein mass (µg)	5.1174×10^1
Modifier mass (µg)	2.4519×10^1
Molar mass moments (g/mol)	
Mn	2.733×10^5 (±17.434%)
Mw	3.287×10^5 (±23.359%)
Polydispersity	
Mw/Mn	1.202 (±29.147%)
rms radius moments (nm)	
rz	92.3 (±11.6%)
Protein molar mass moments (g/mol)	
Mn (protein)	1.823×10^5 (±17.217%)
Mw (protein)	2.293×10^5 (±24.104%)

FIG. 3

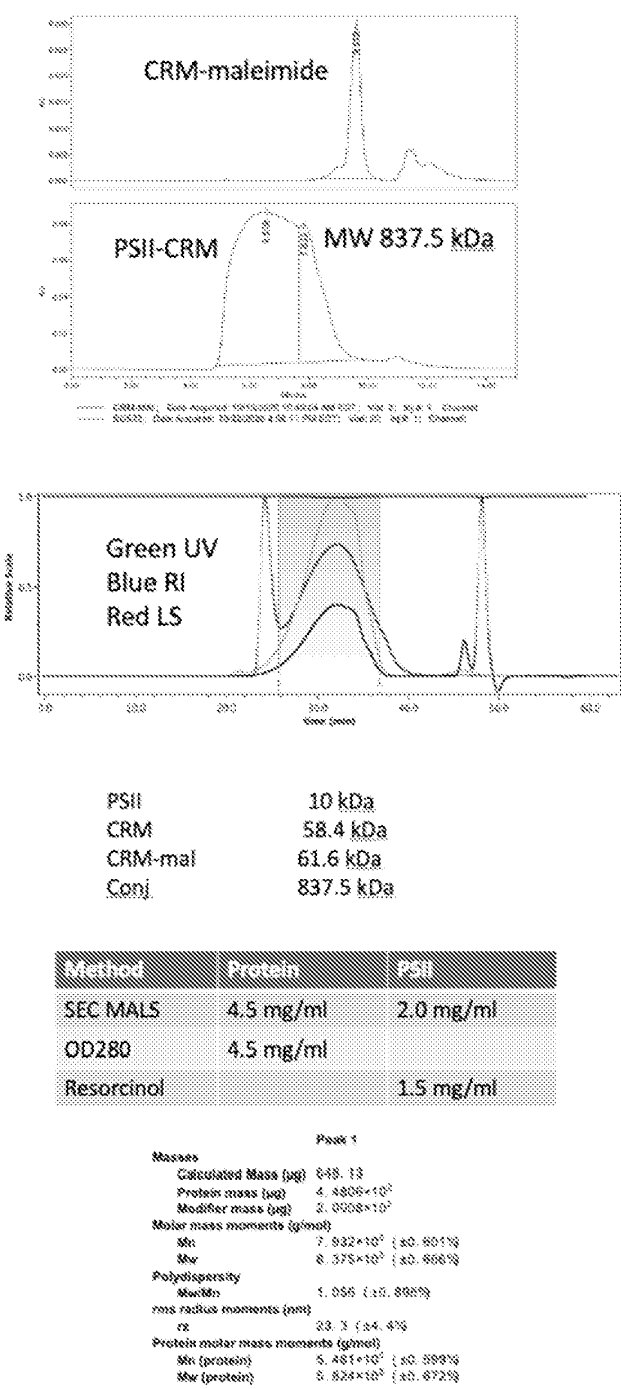


FIG. 4

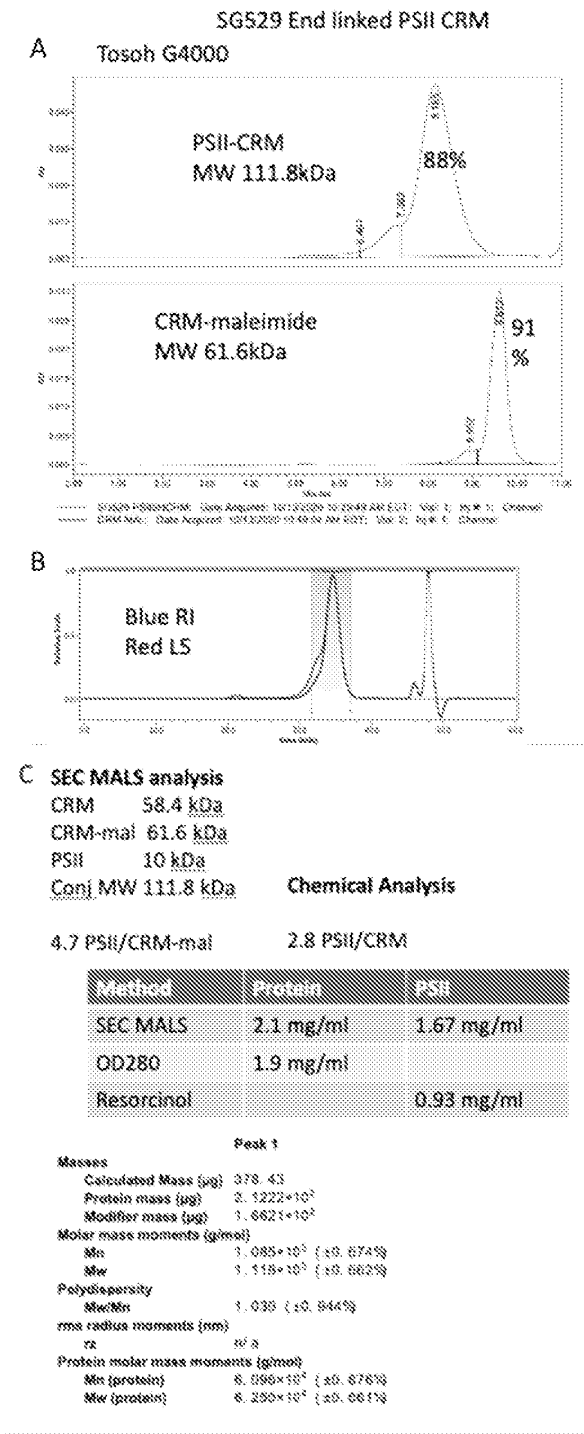


FIG. 5

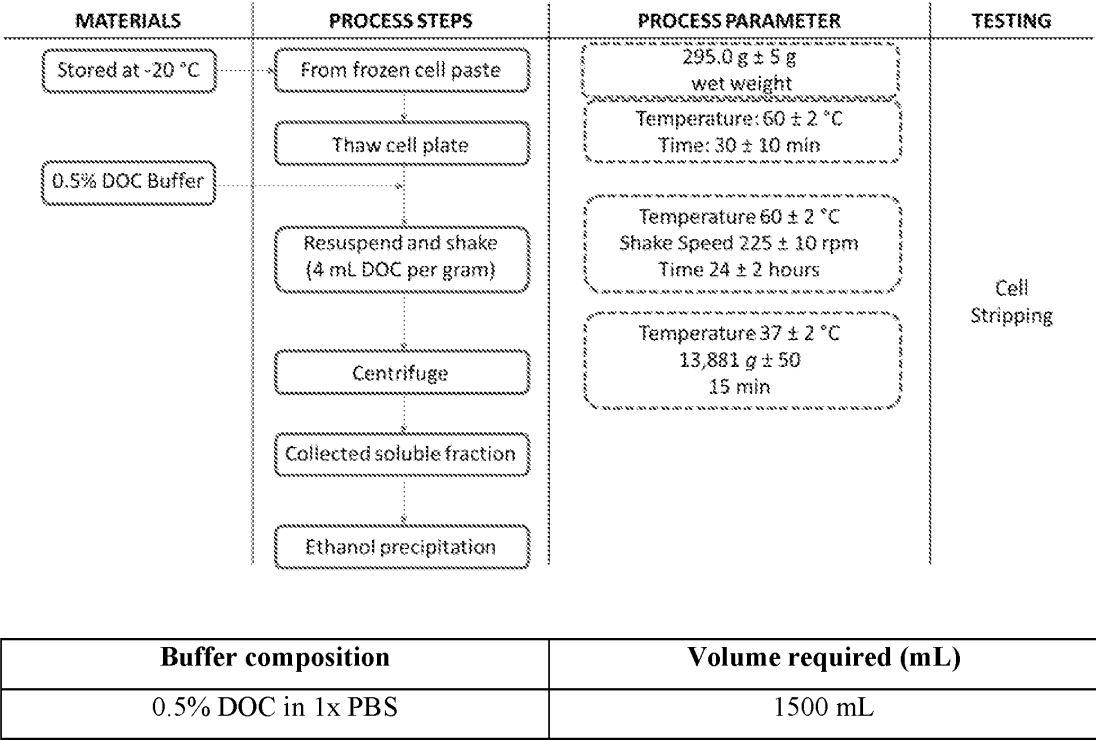


FIG. 6

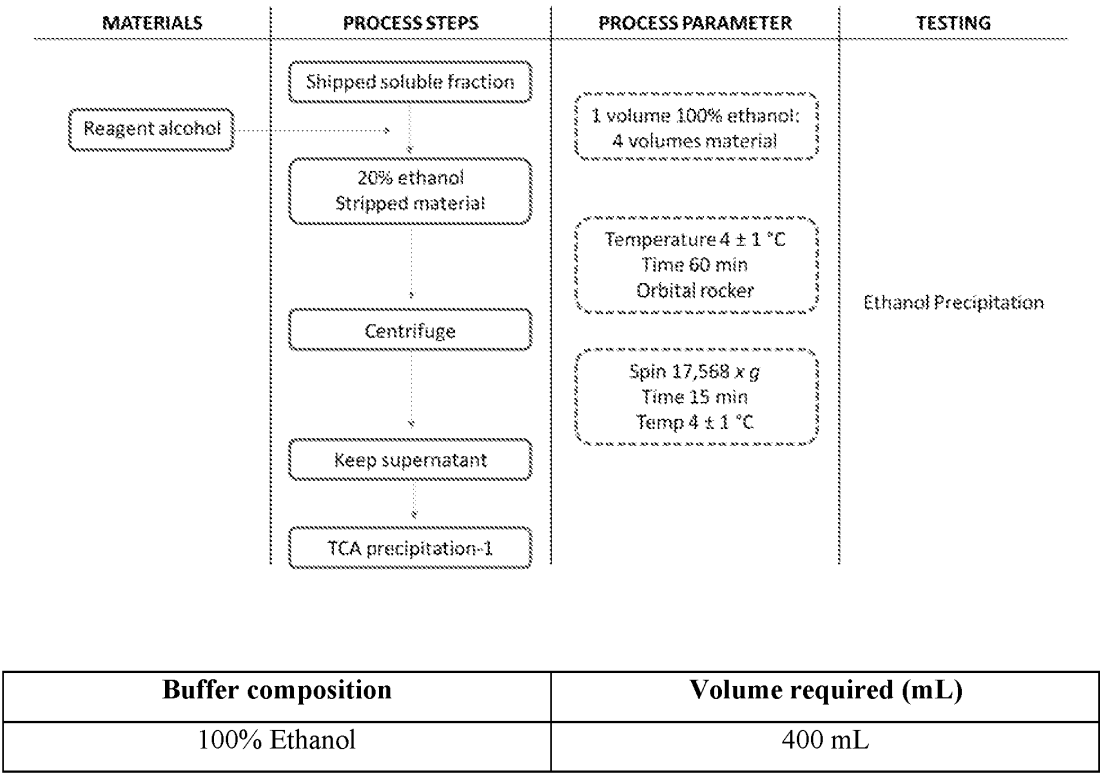
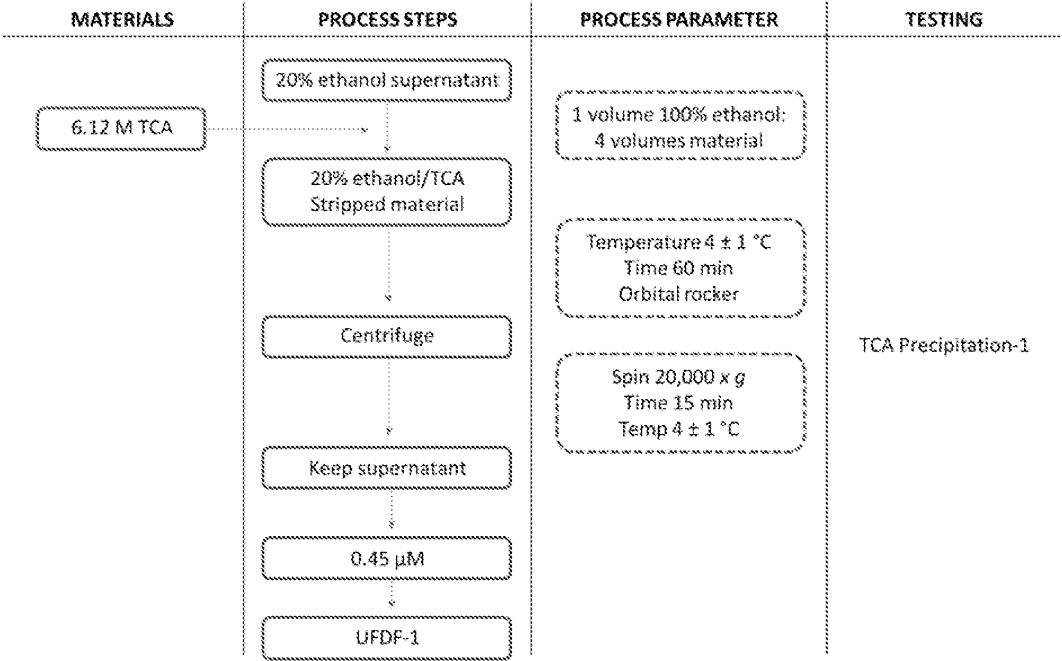
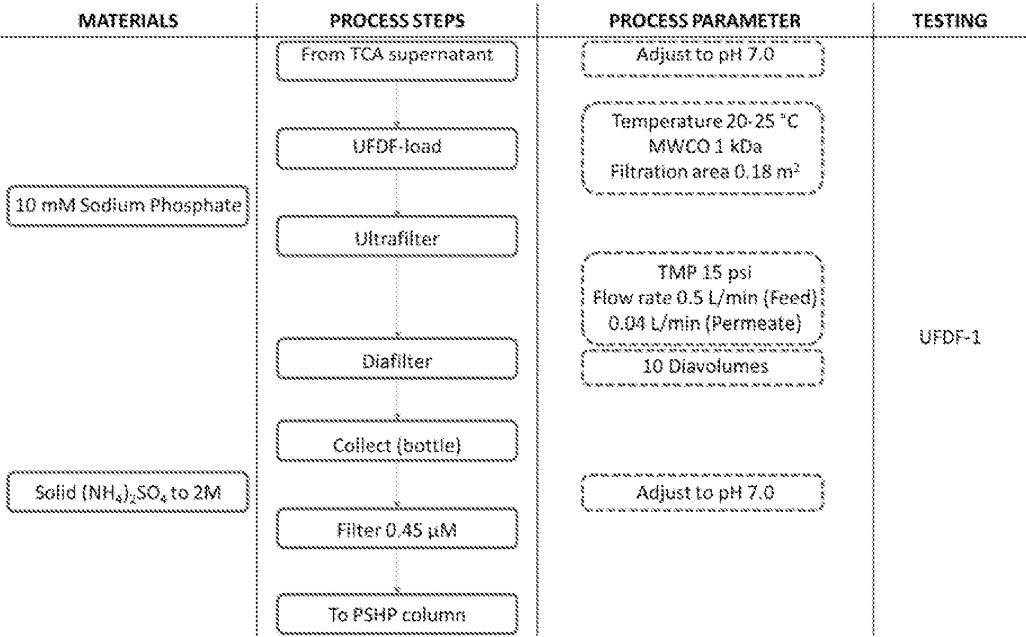


FIG. 7



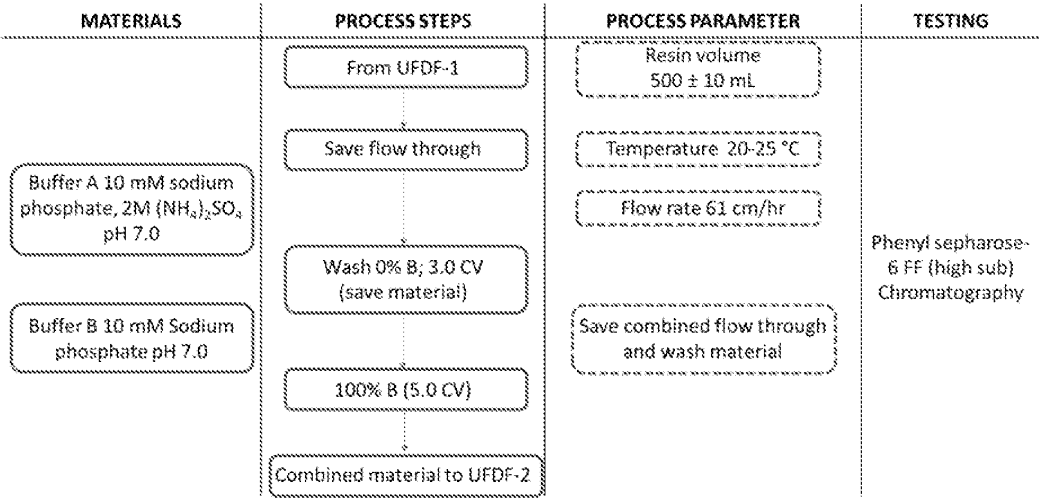
Buffer composition	Volume required (mL)
6.12 M TCA	600 mL

FIG. 8



Buffer composition	Volume required (mL)
10 mM sodium phosphate	4 L
Solid (NH ₄) SO ₄ until 2M	TBD

FIG. 9



Buffer composition	Volume required
Buffer A: 10 mM sodium phosphate, 2M (NH ₄) ₂ SO ₄ , pH 7.0	8 L
Buffer B: 10 mM sodium phosphate, pH 7.0	8 L

FIG. 10

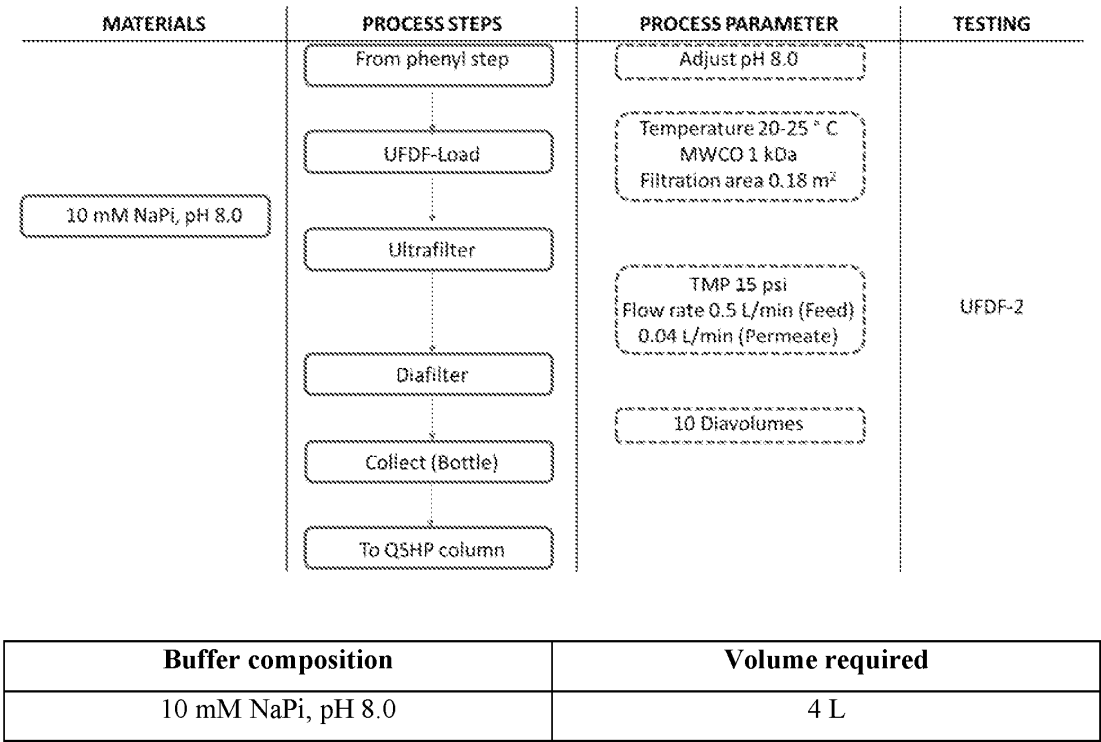
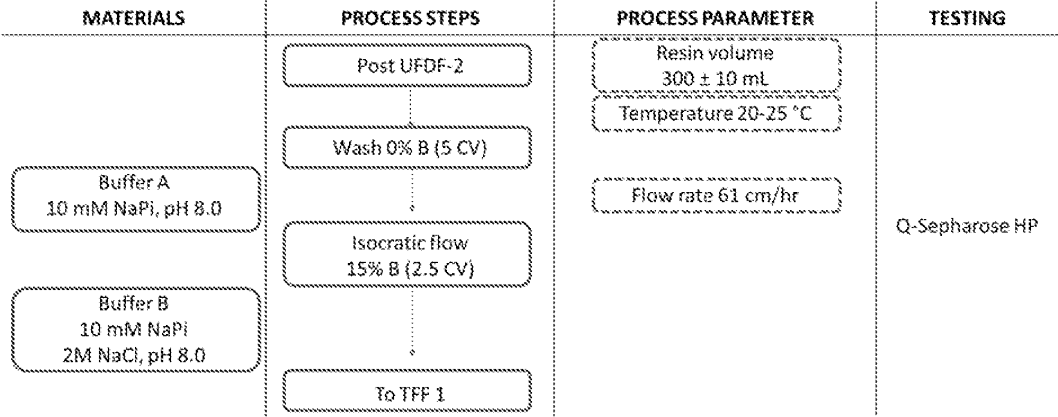
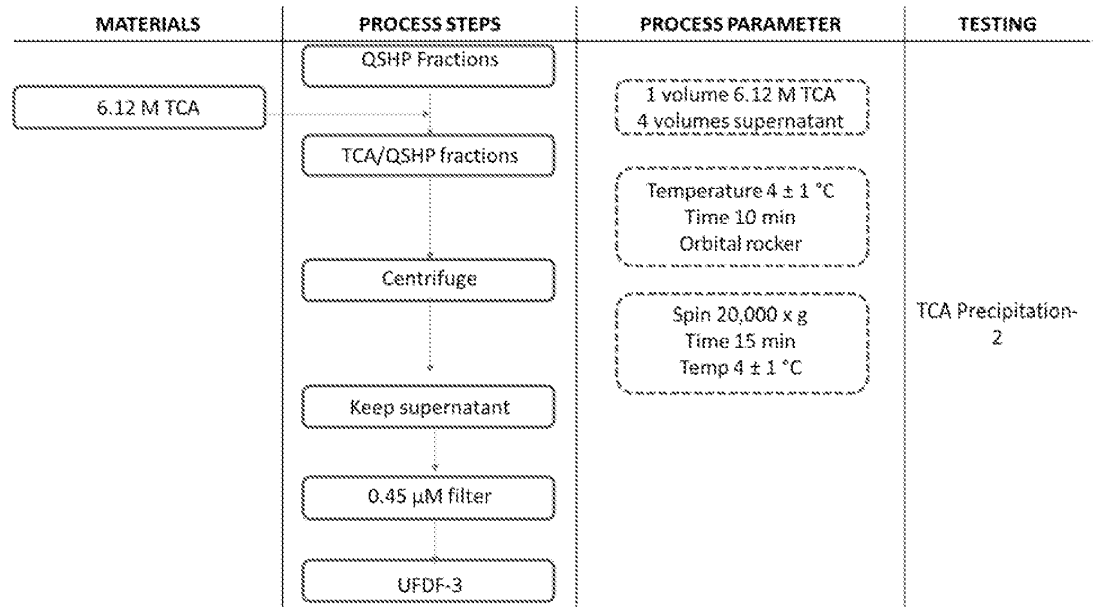


FIG. 11



Buffer composition	Volume required
Buffer A: 10 mM NaPi, pH 8.0	8.0 L
Buffer B: 10 mM NaPi, 1M NaCl, pH 8.0	8.0 L

FIG. 12



Buffer composition	Volume required (mL)
6.12 M TCA	100 mL

FIG. 13

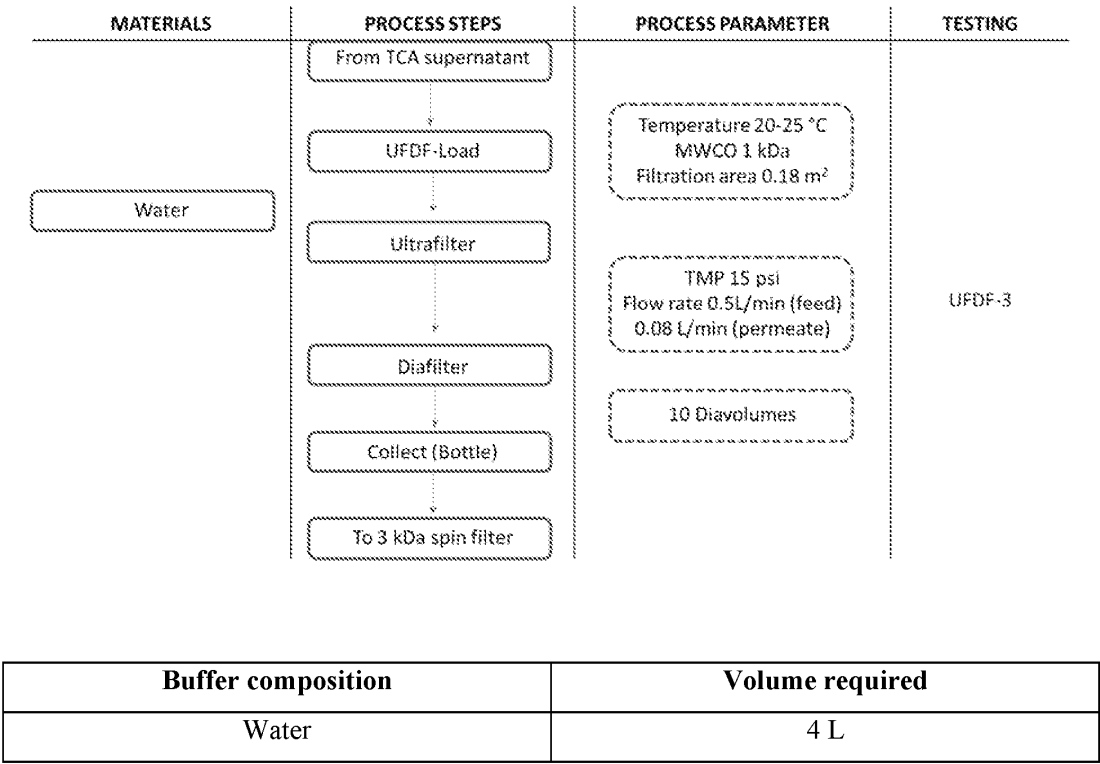


FIG. 14

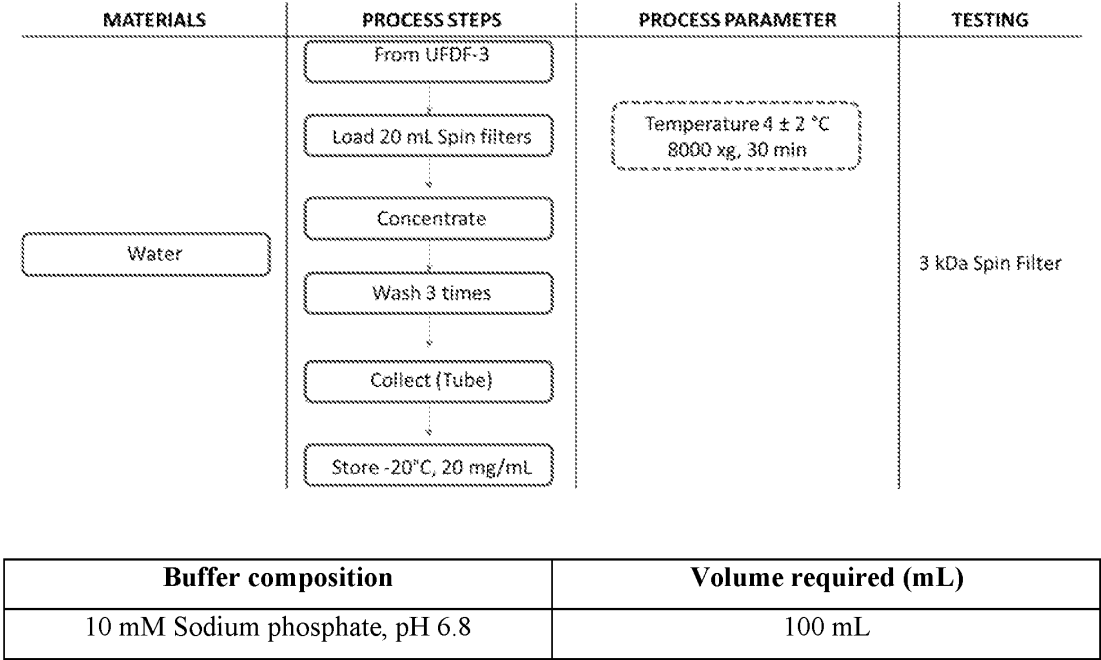


FIG. 15

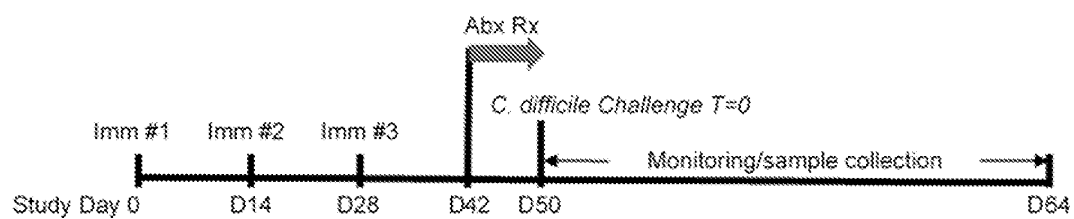
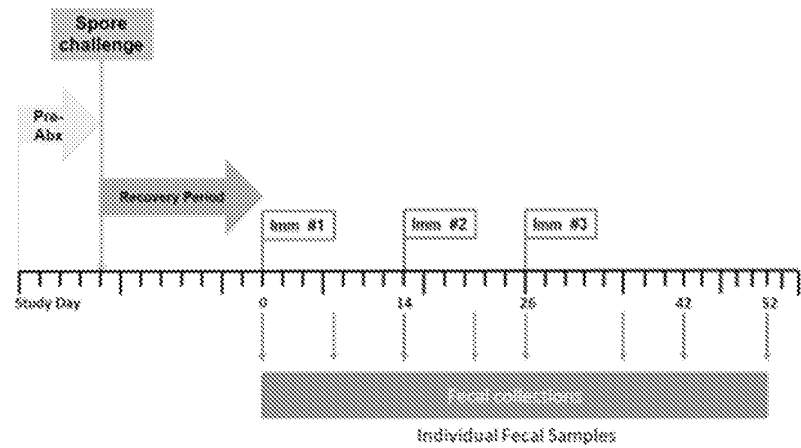


FIG. 16

A



B

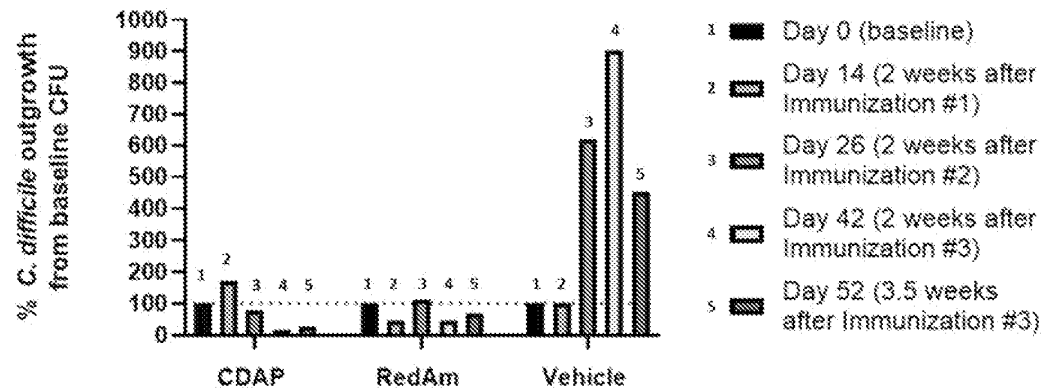
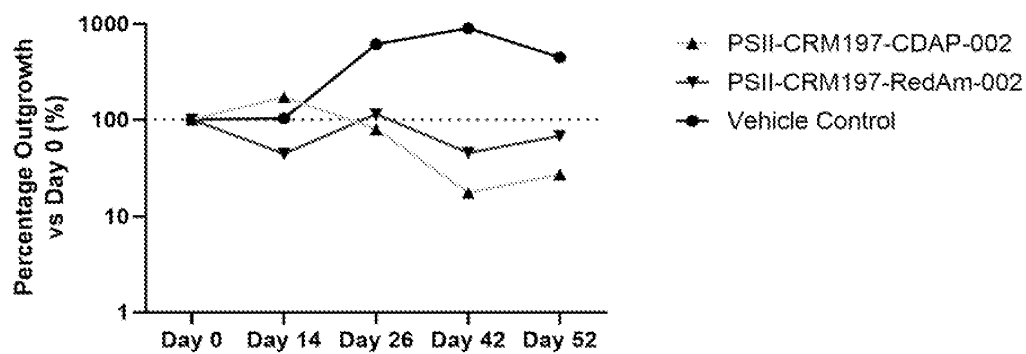


FIG. 17

% C. difficile outgrowth from Baseline CFU at Day 0

Day 0: 16 Days post C diff spore challenge (n=5)
 Day 14: 2 weeks post 1st immunization (n=5)
 Day 26: 2 weeks post 2nd immunization (n=5)
 Day 42: 2 weeks post 3rd immunization (n=5)
 Day 52: 3.5 weeks post 3rd immunization (n=5)
 **Data in progress as of 02Feb2021, Geometric mean is graphed here.

FIG. 18

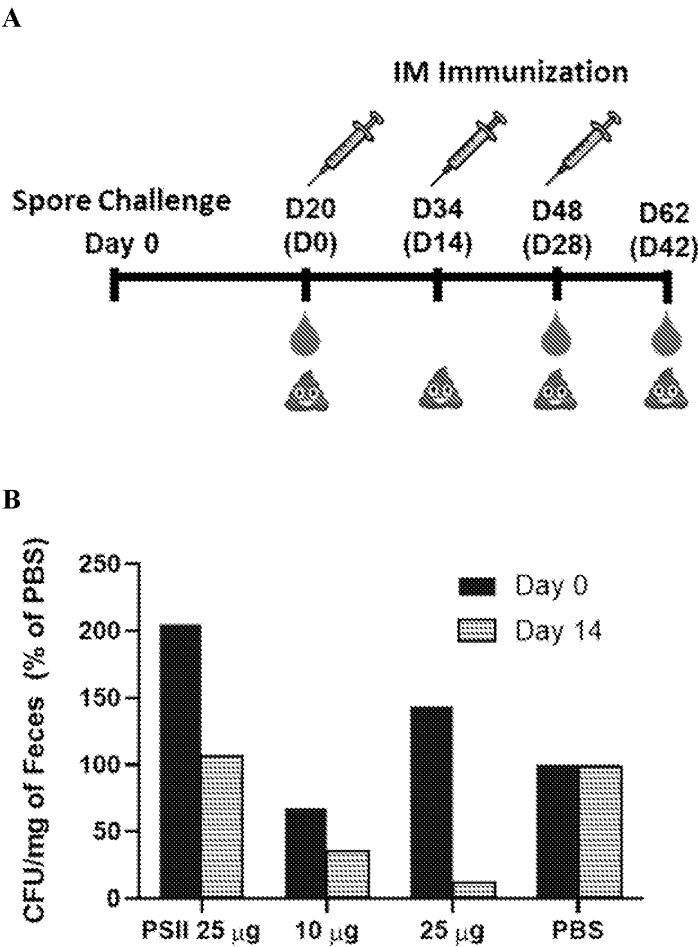


FIG. 19

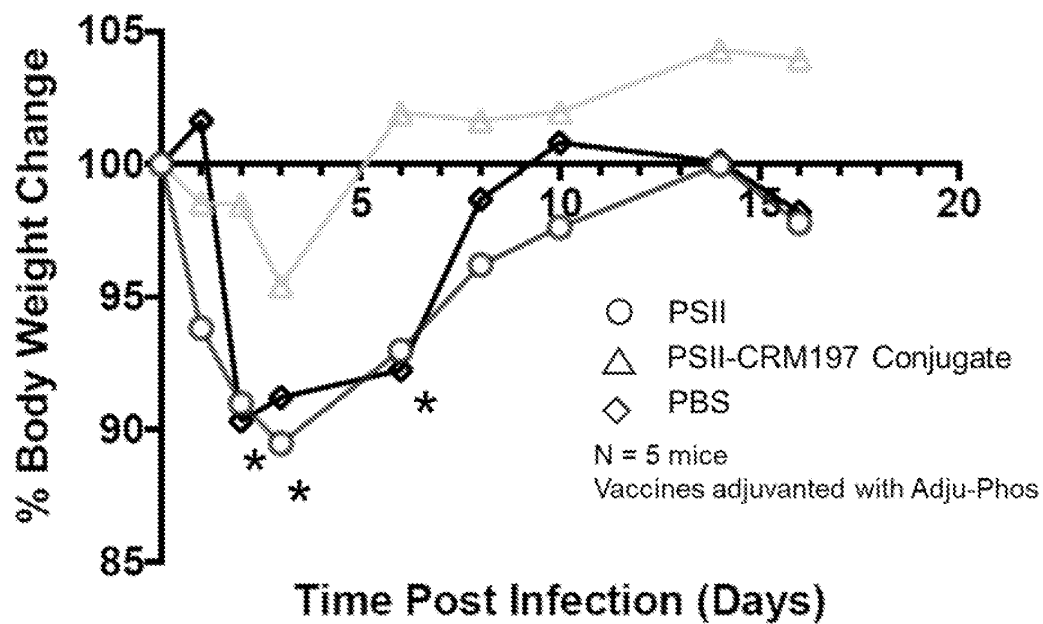


FIG. 20

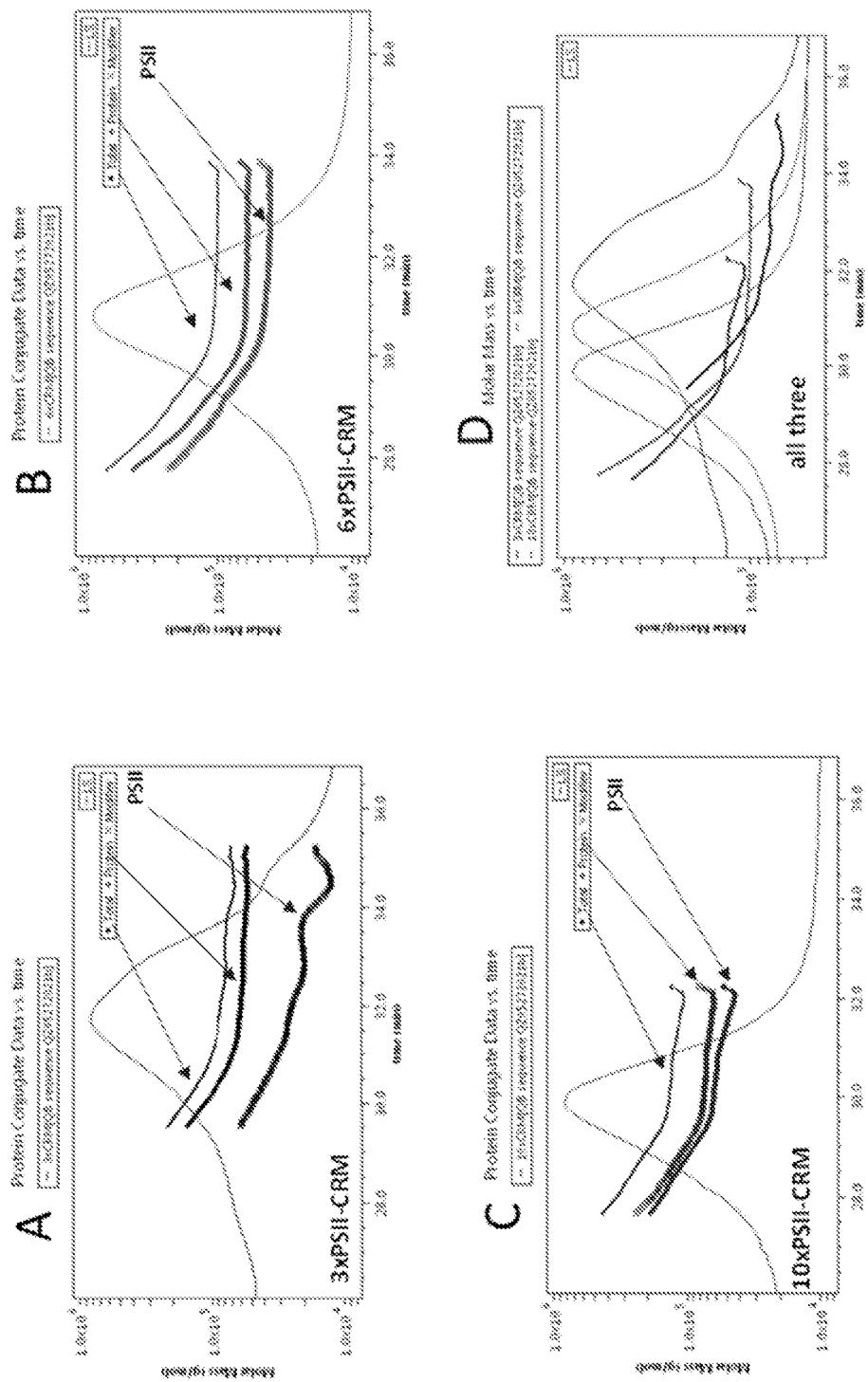


FIG. 21

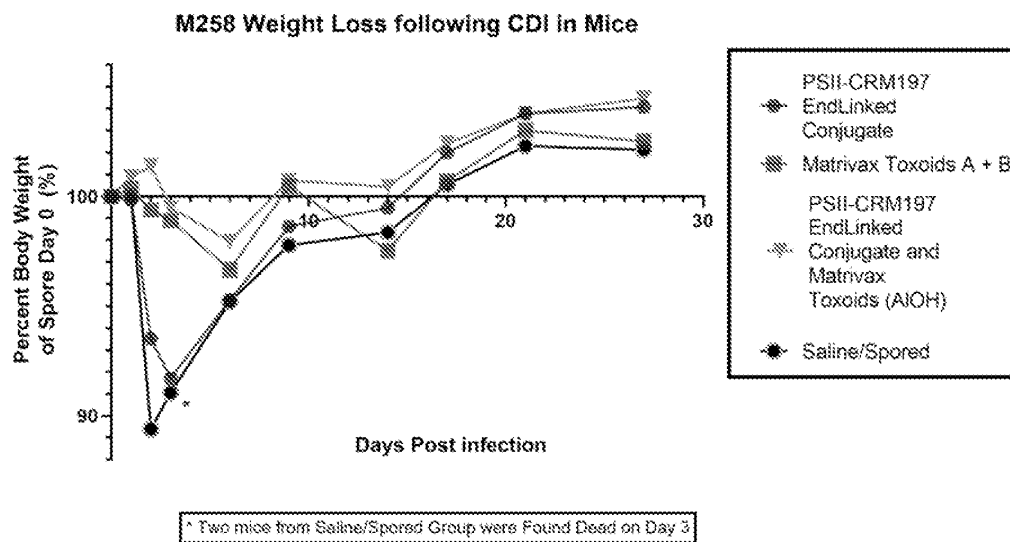


FIG. 22

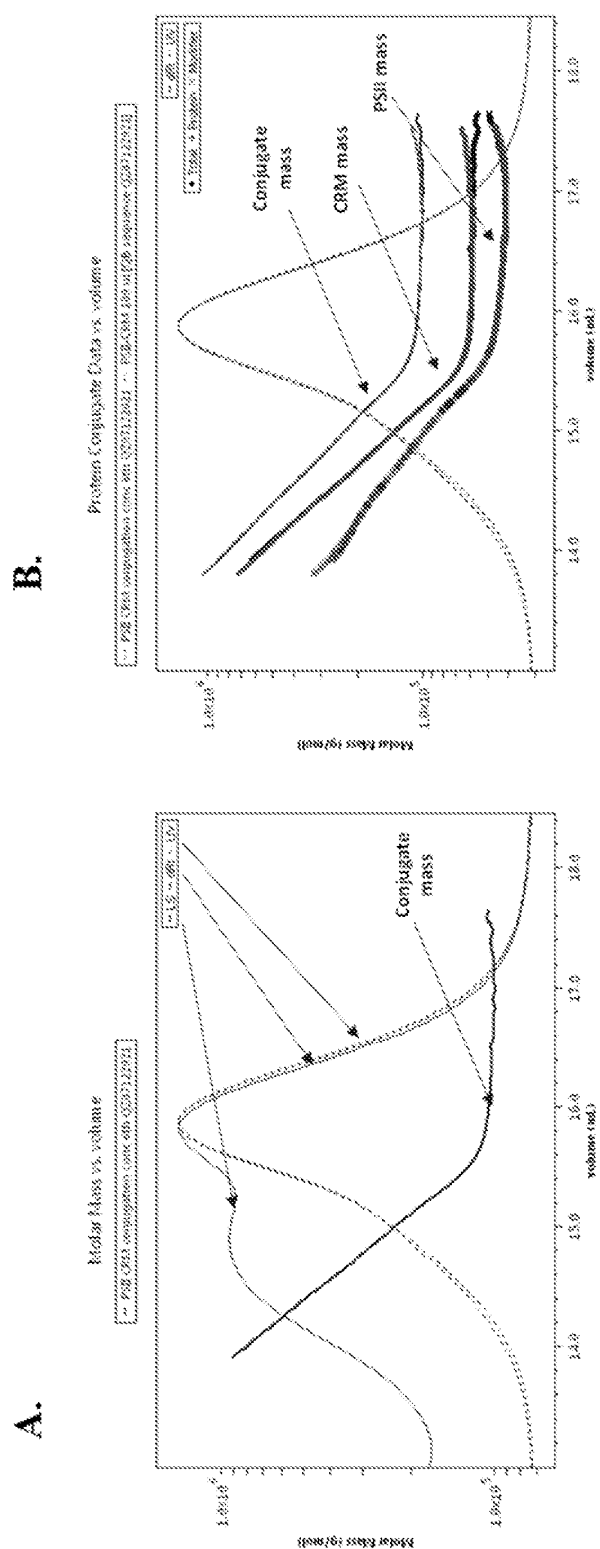


FIG. 23

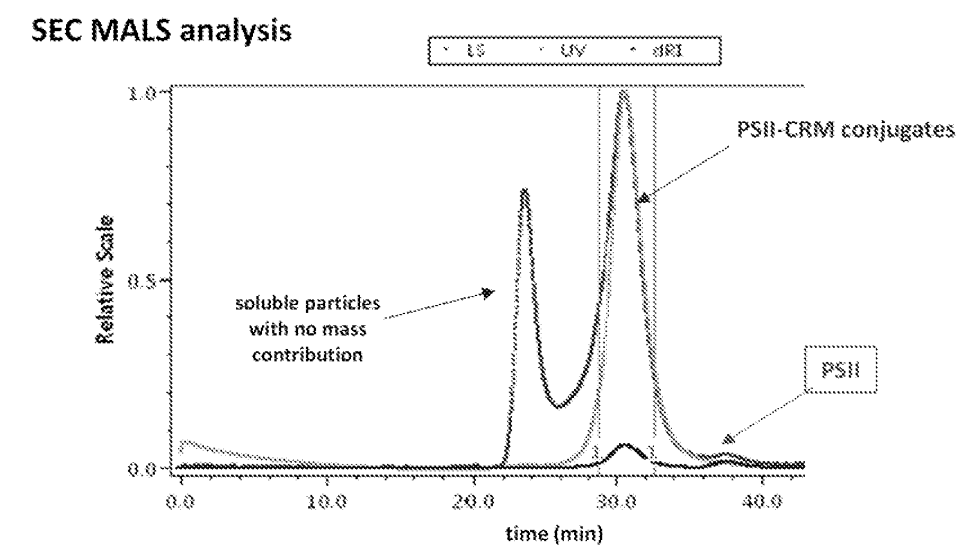


FIG. 24

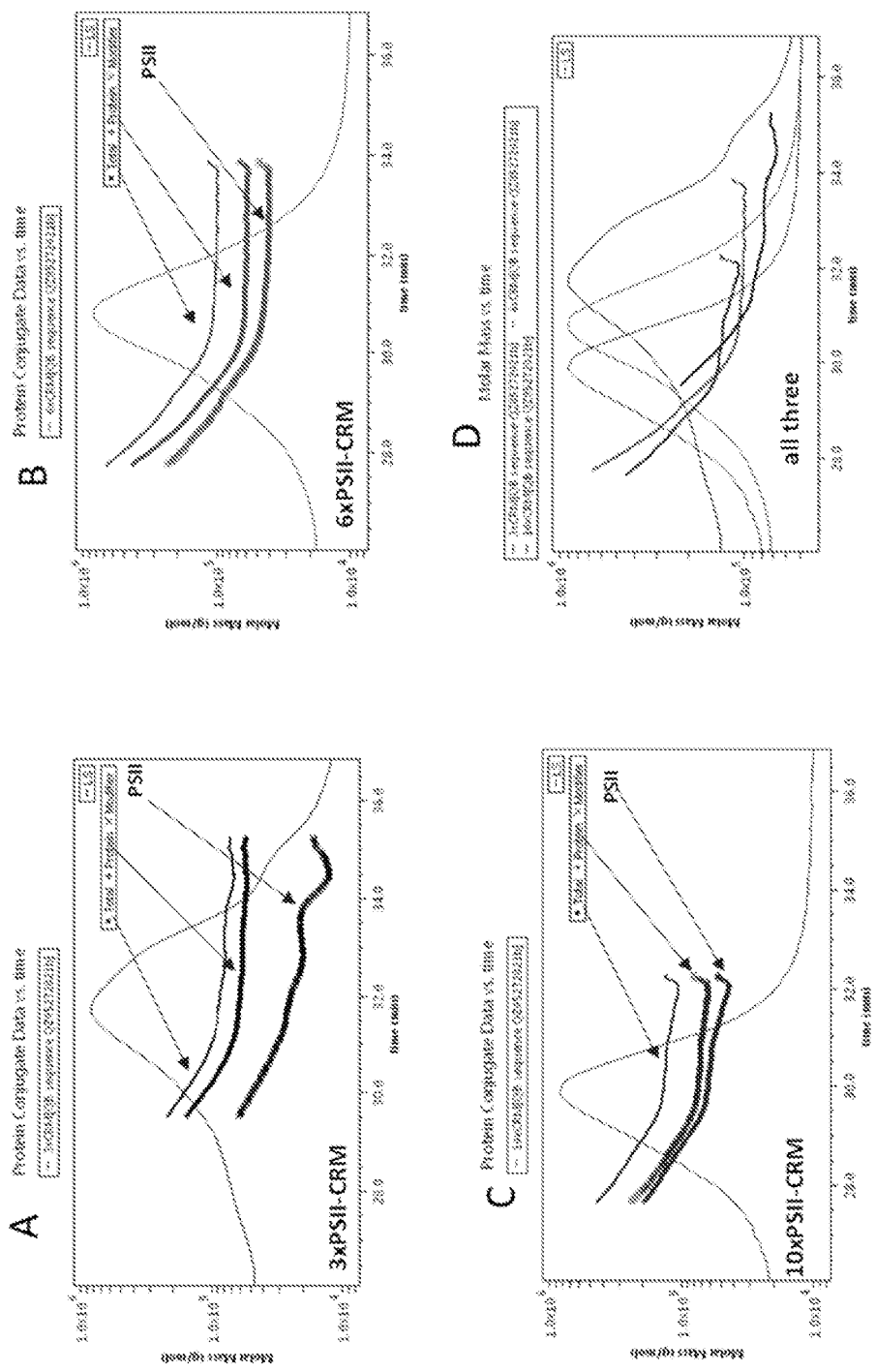


FIG. 25

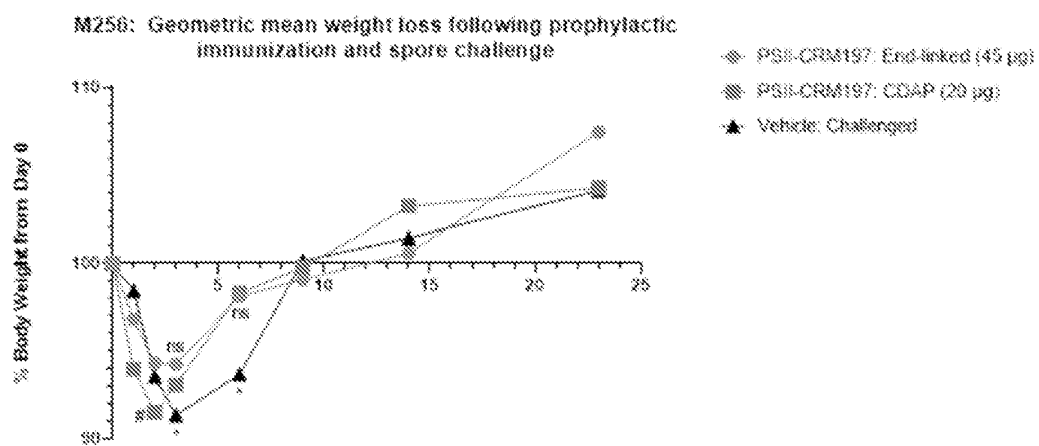


FIG. 26

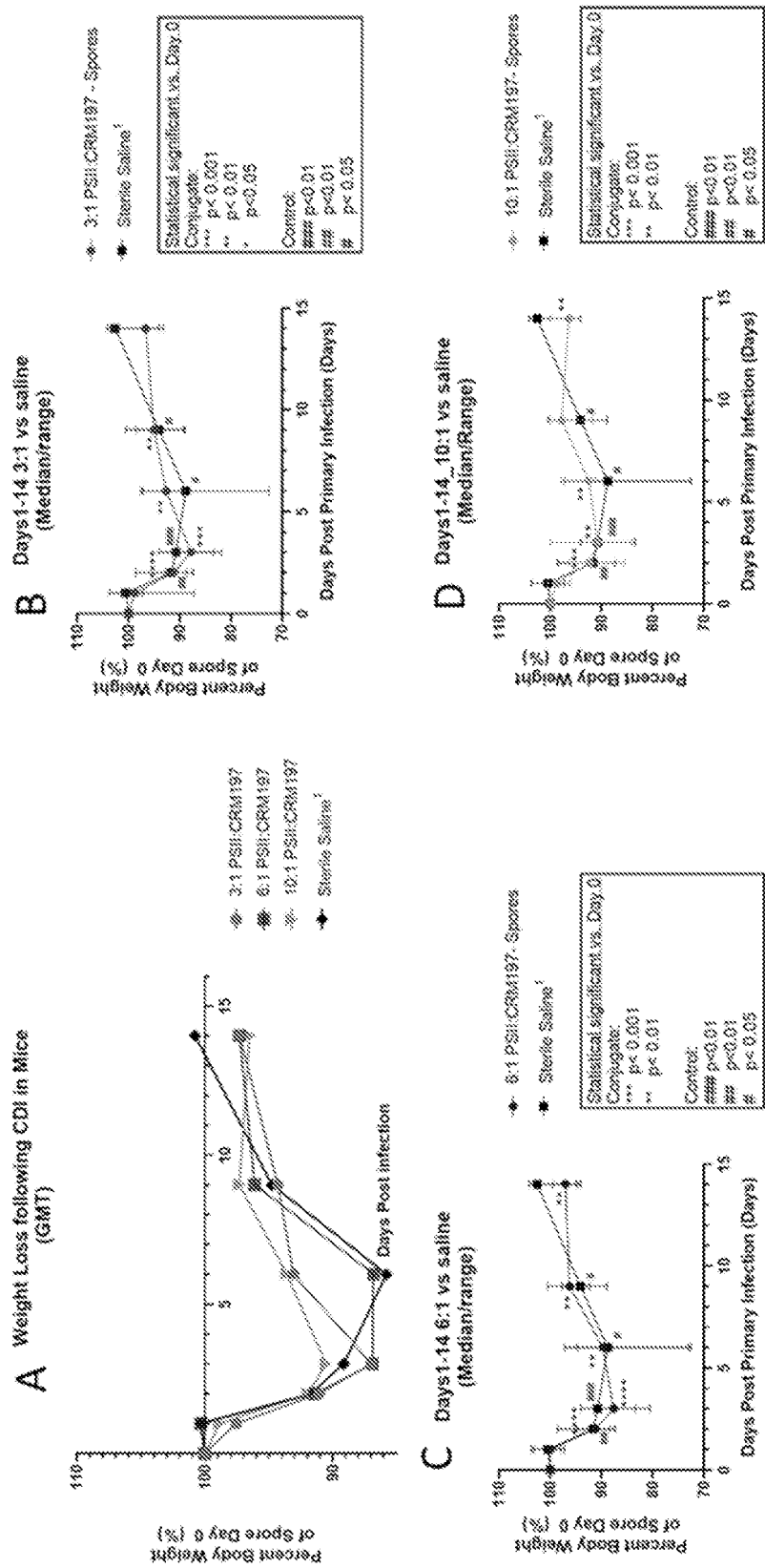


FIG. 27

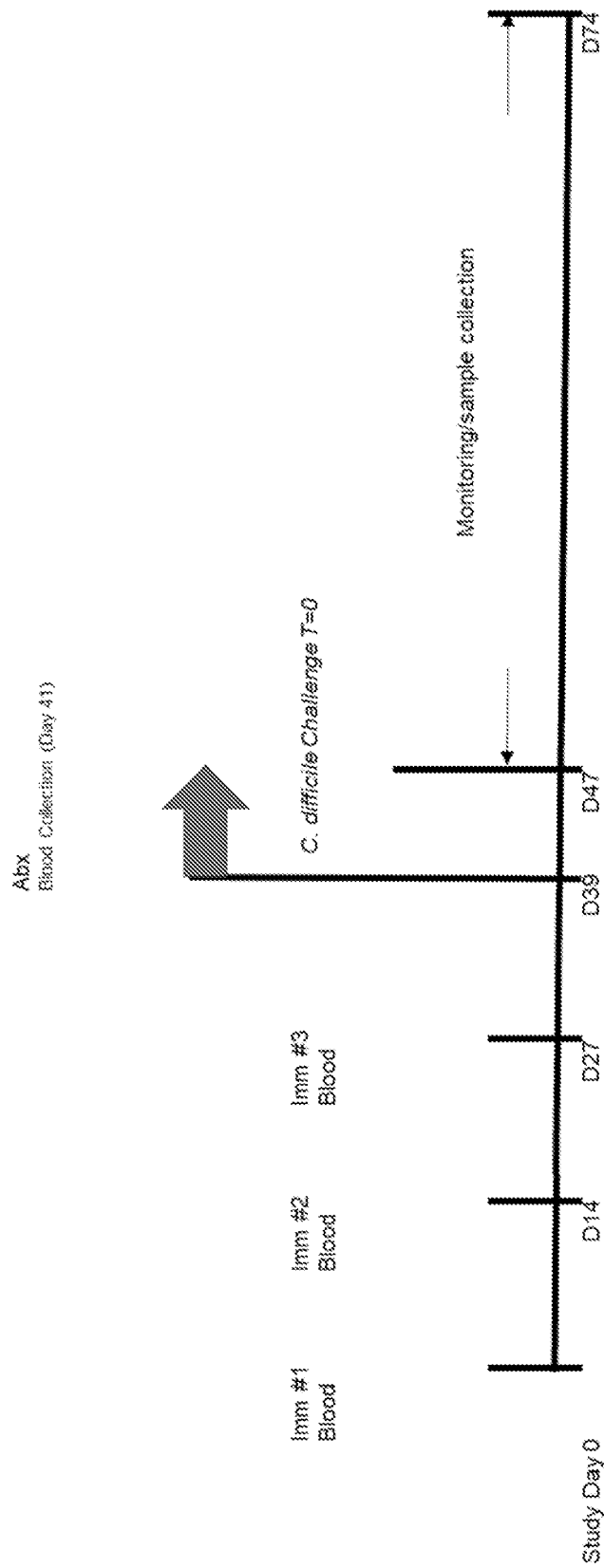


FIG. 28

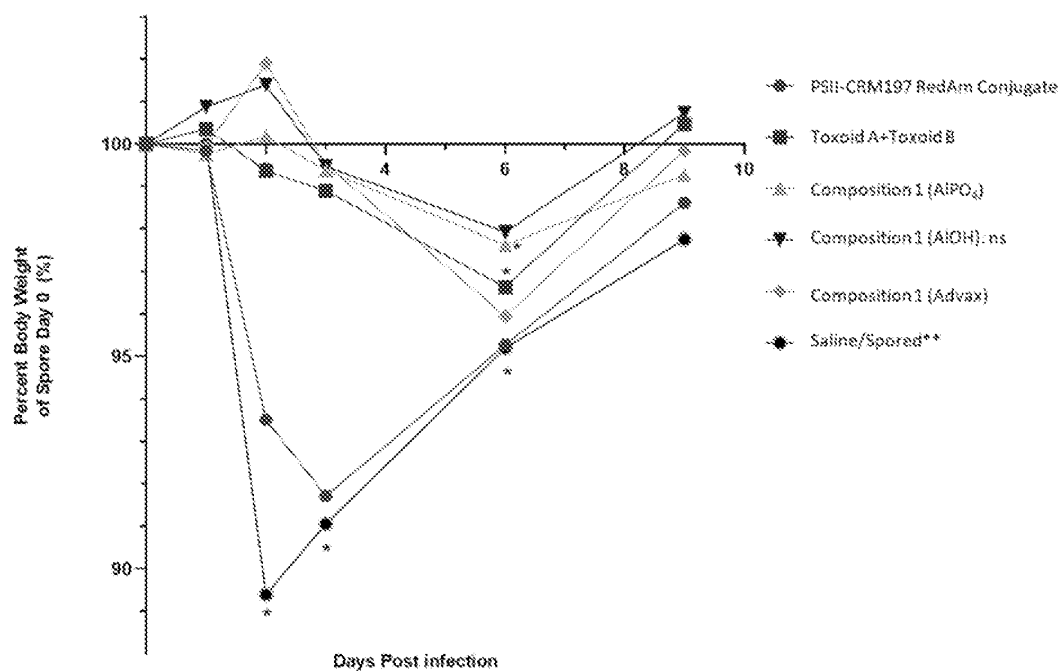


FIG. 29

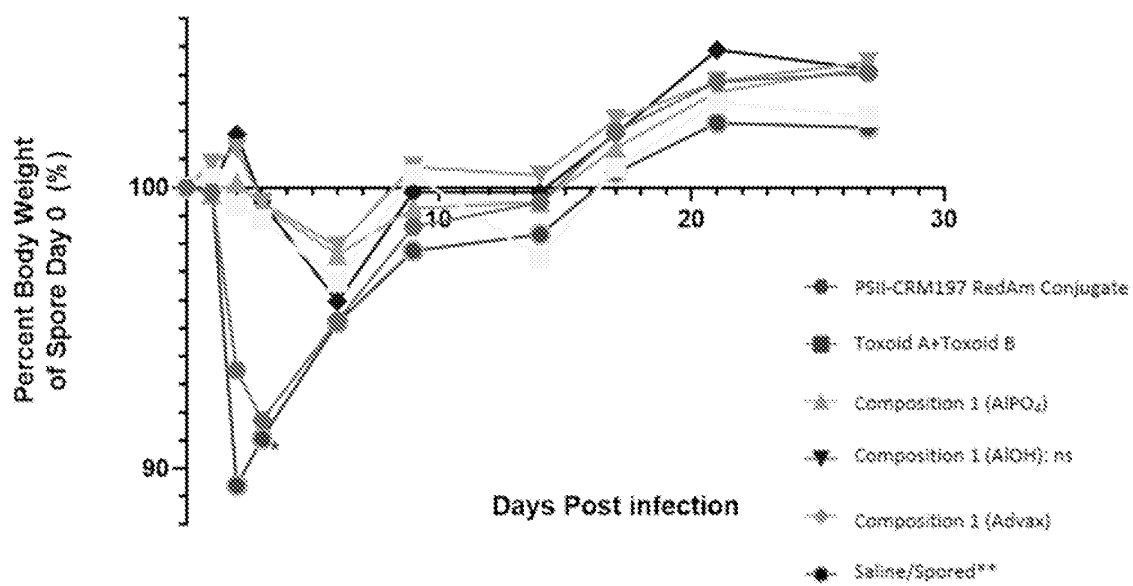


FIG. 30

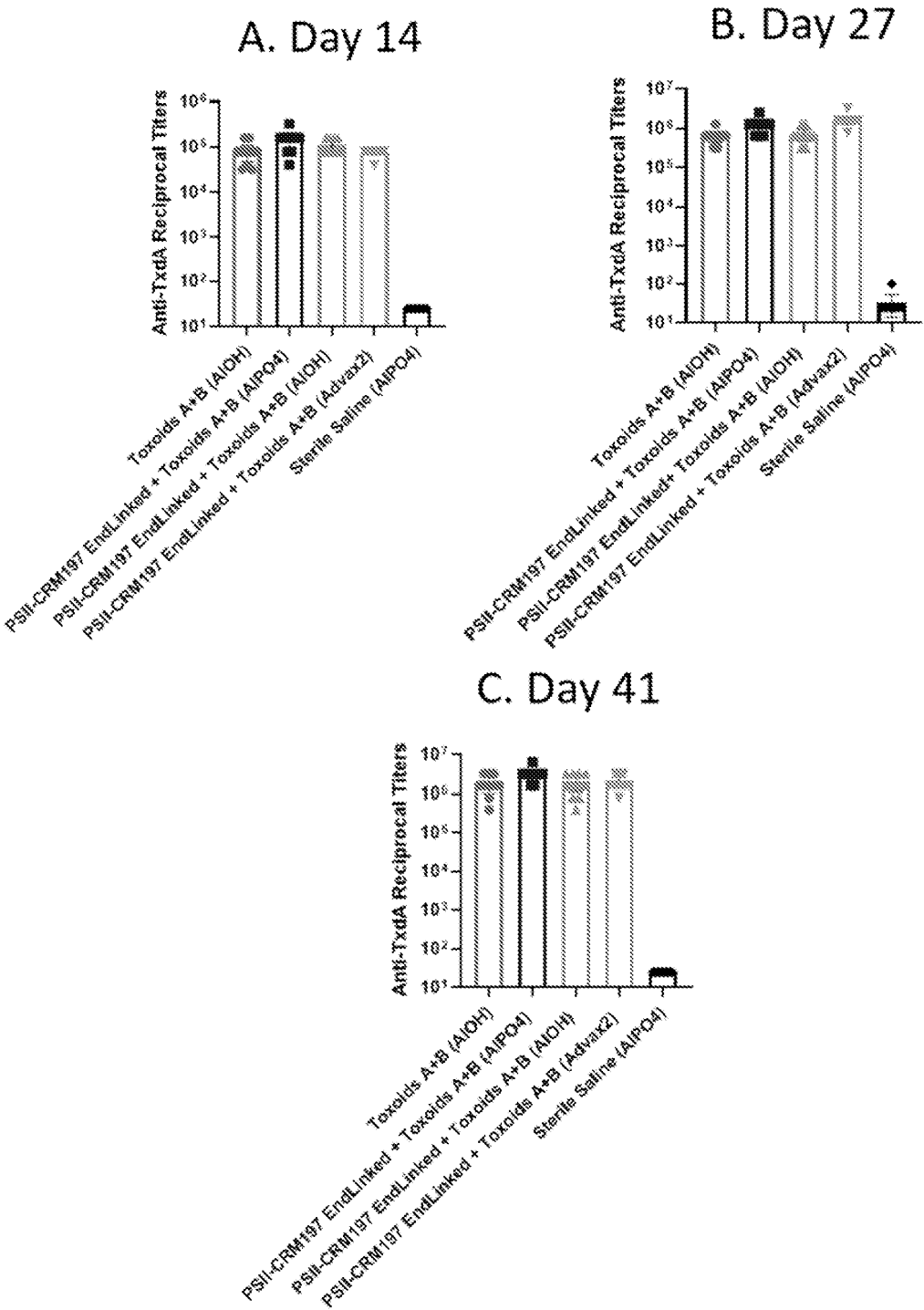


FIG. 31A-31C

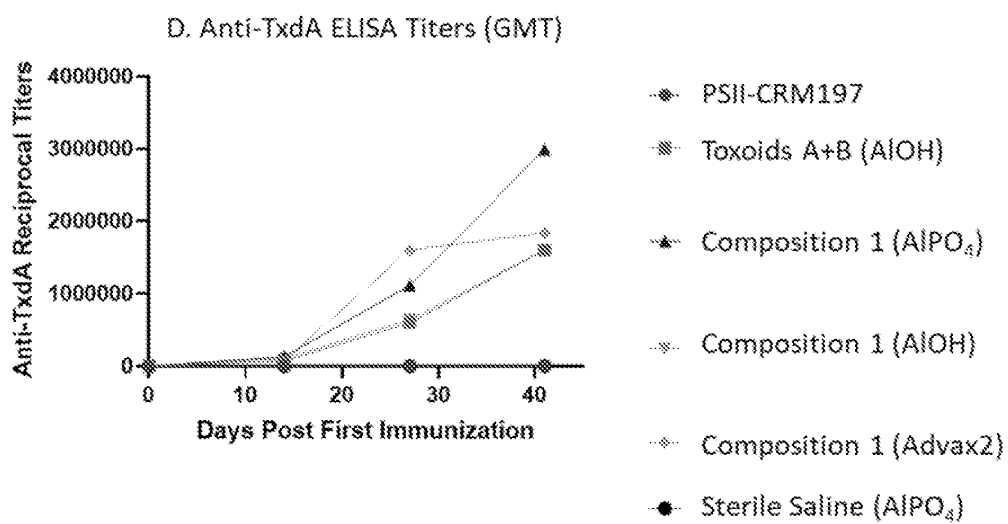


FIG. 31D