

Fig. 1

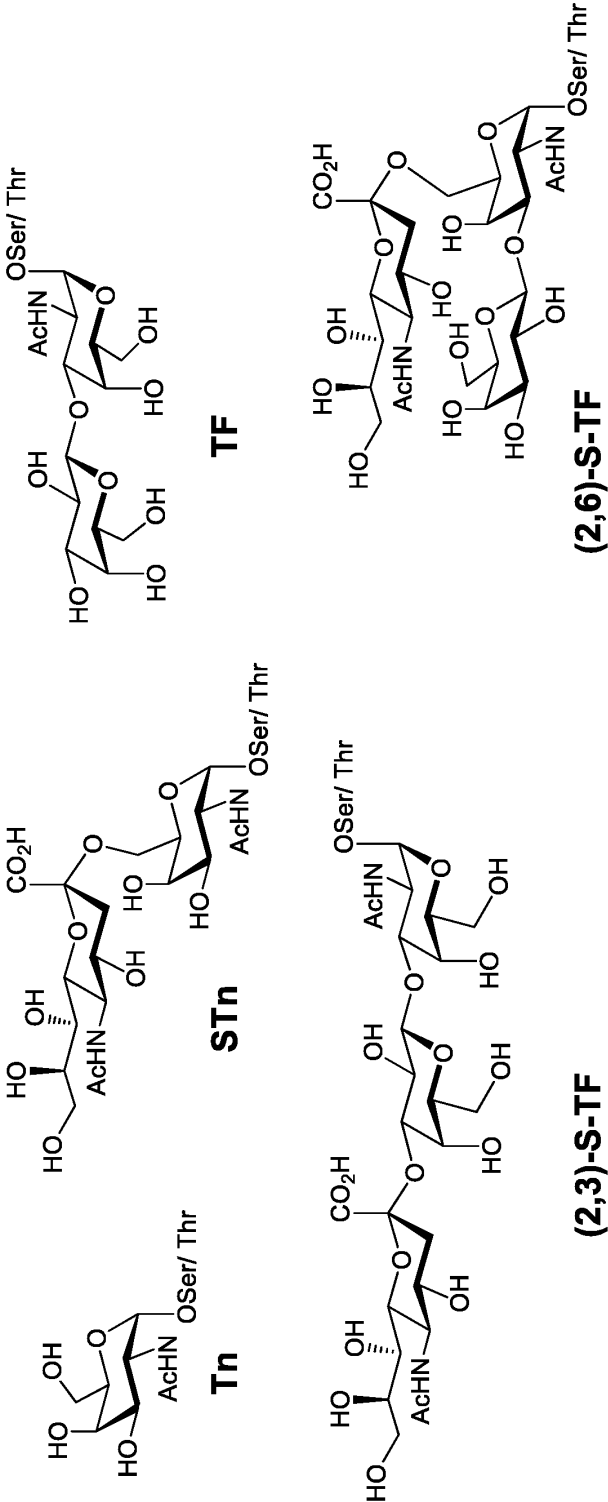
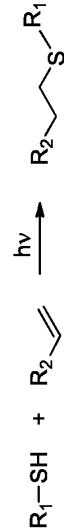


Fig. 2

Photolytic thiol-ene "click chemistry"



R₁ = Cysteine residues on T-cell epitope (ex. Tetanus toxoid)
R₂ = Carbohydrate antigens serving as B-cell epitopes

Fig. 3

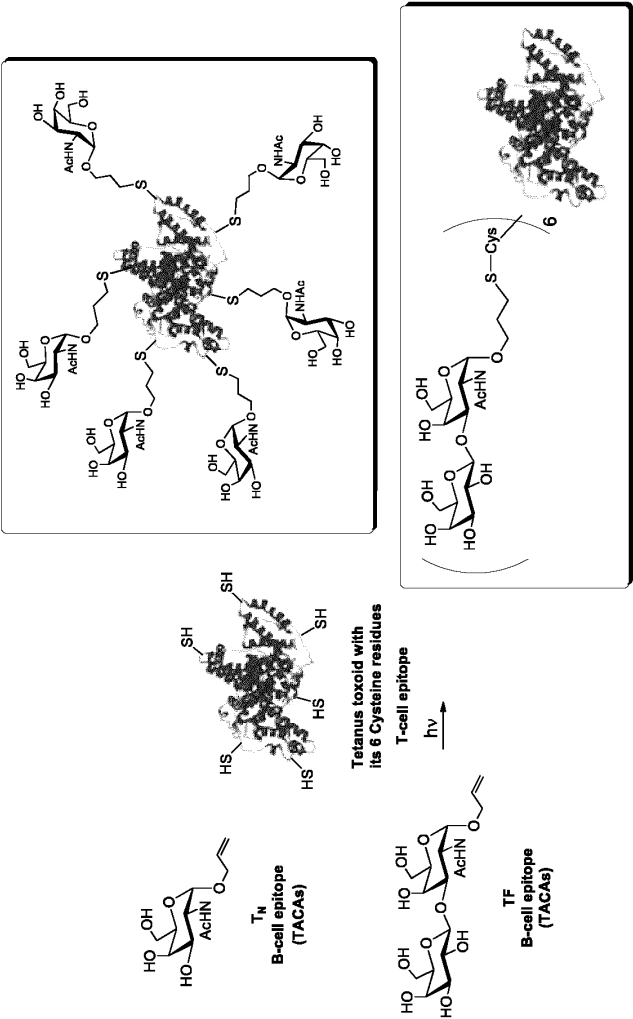


Fig. 4

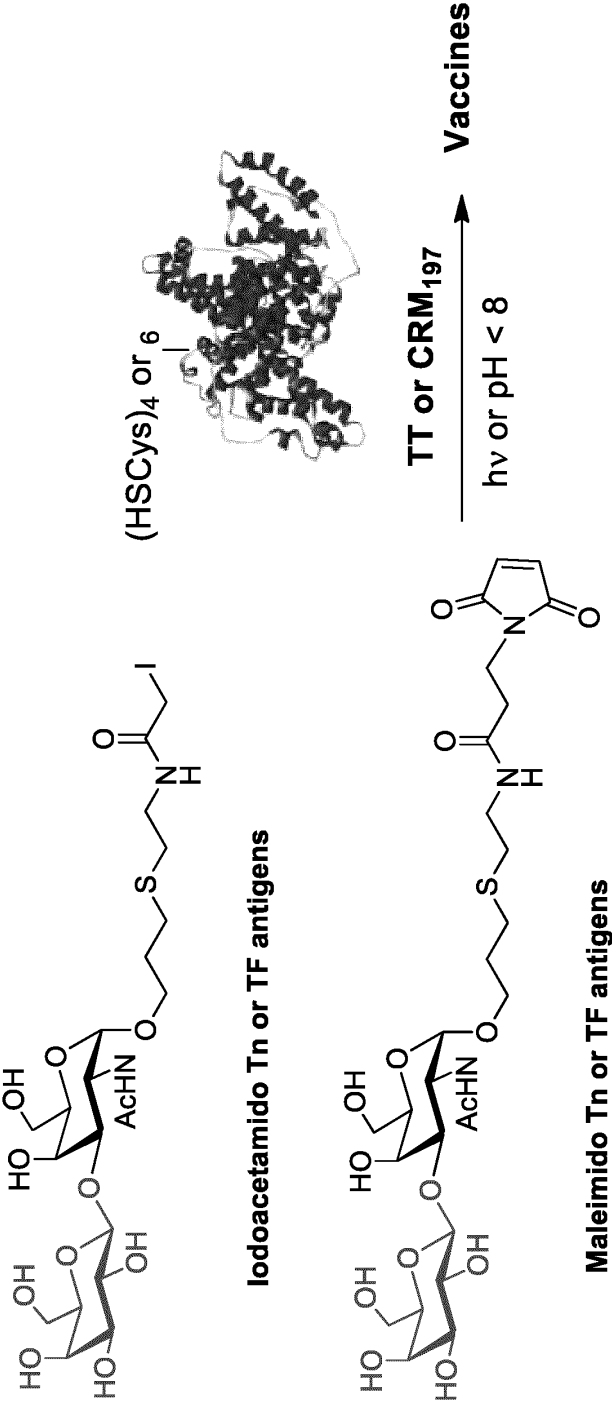
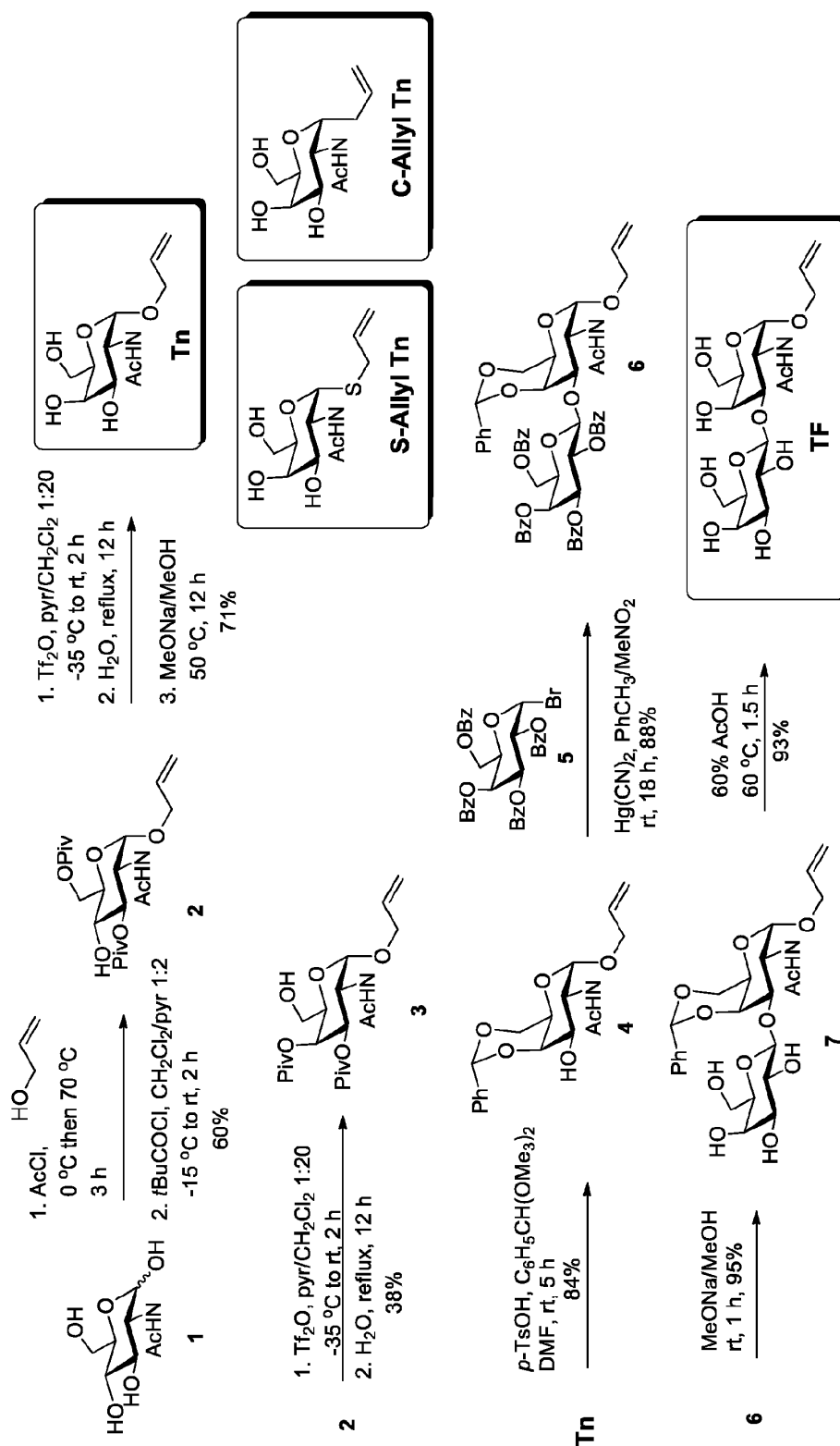


Fig. 5



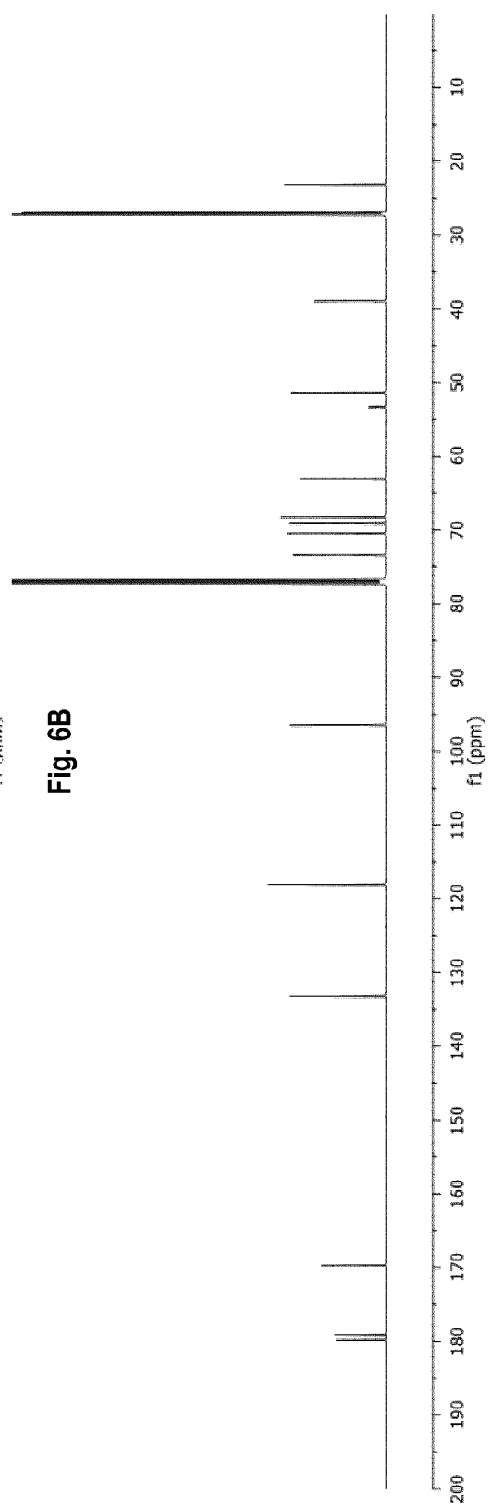
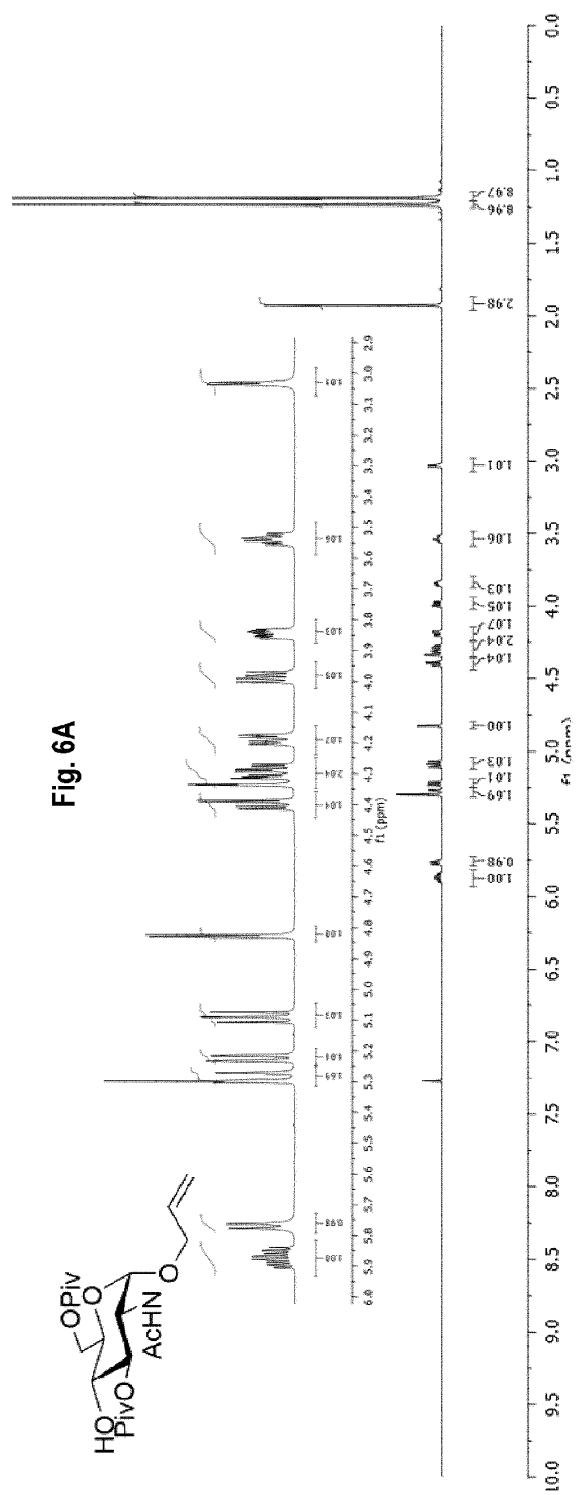


Fig. 6C

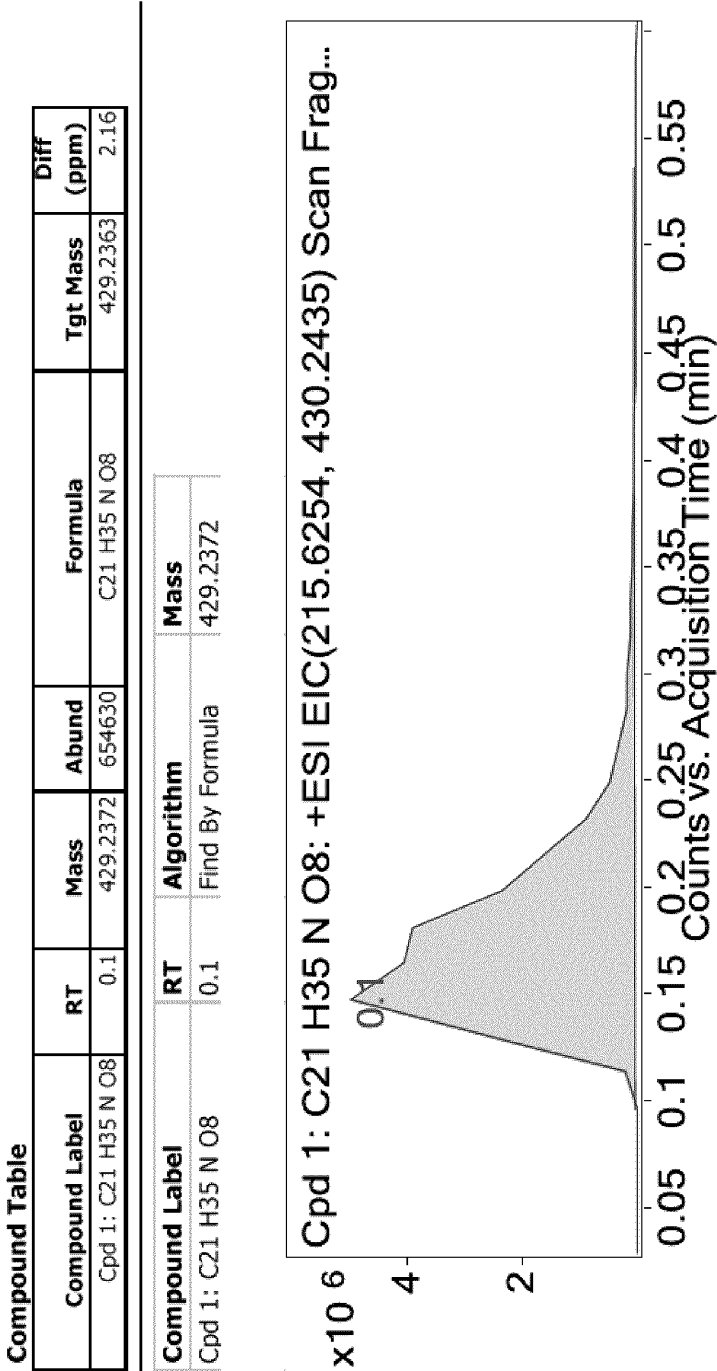
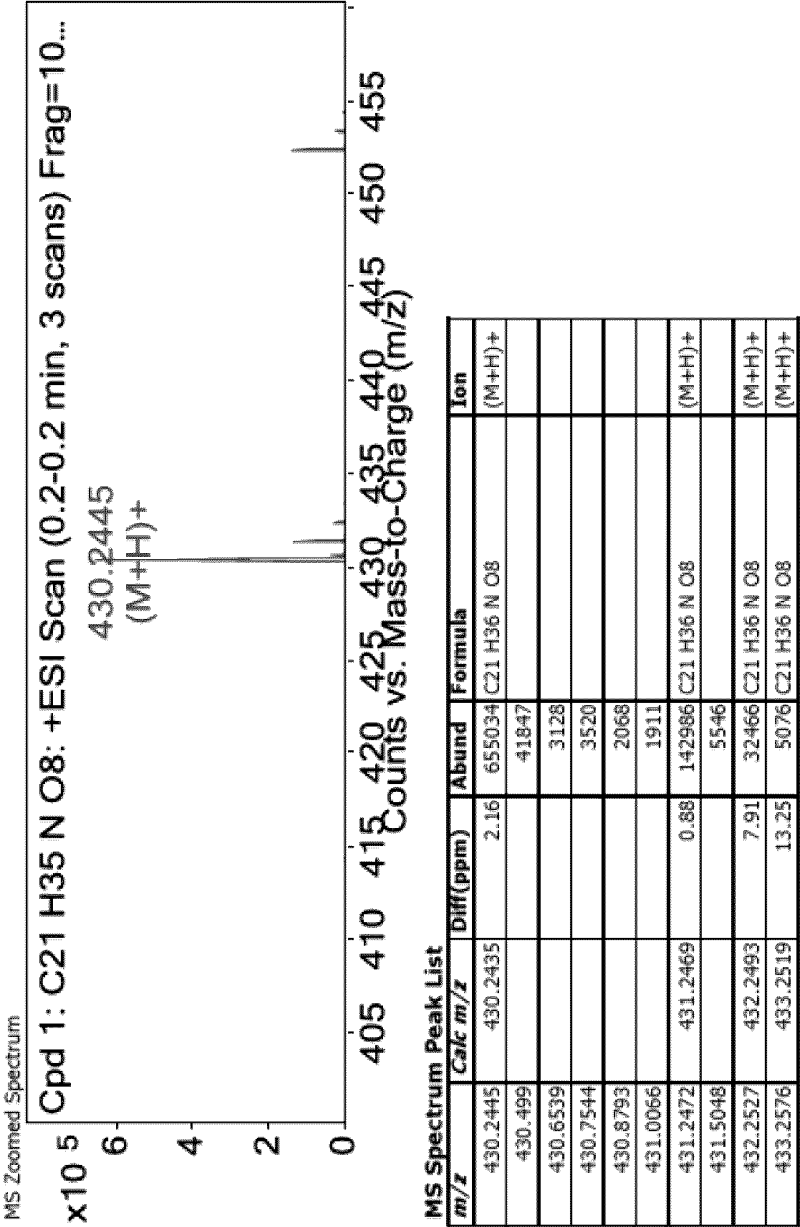


Fig. 6D



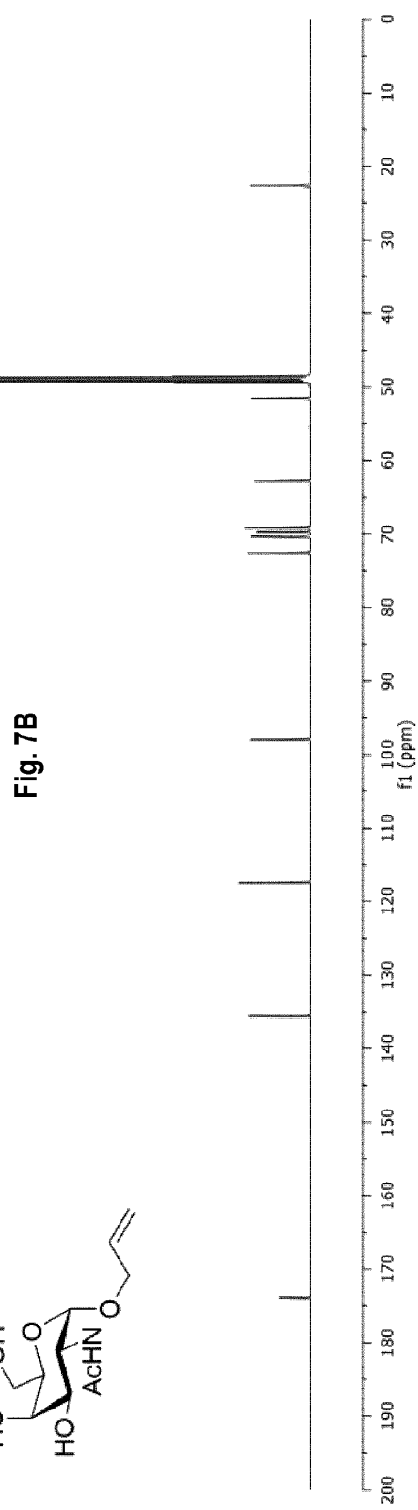
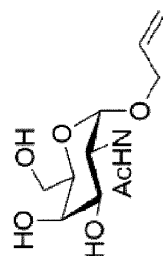
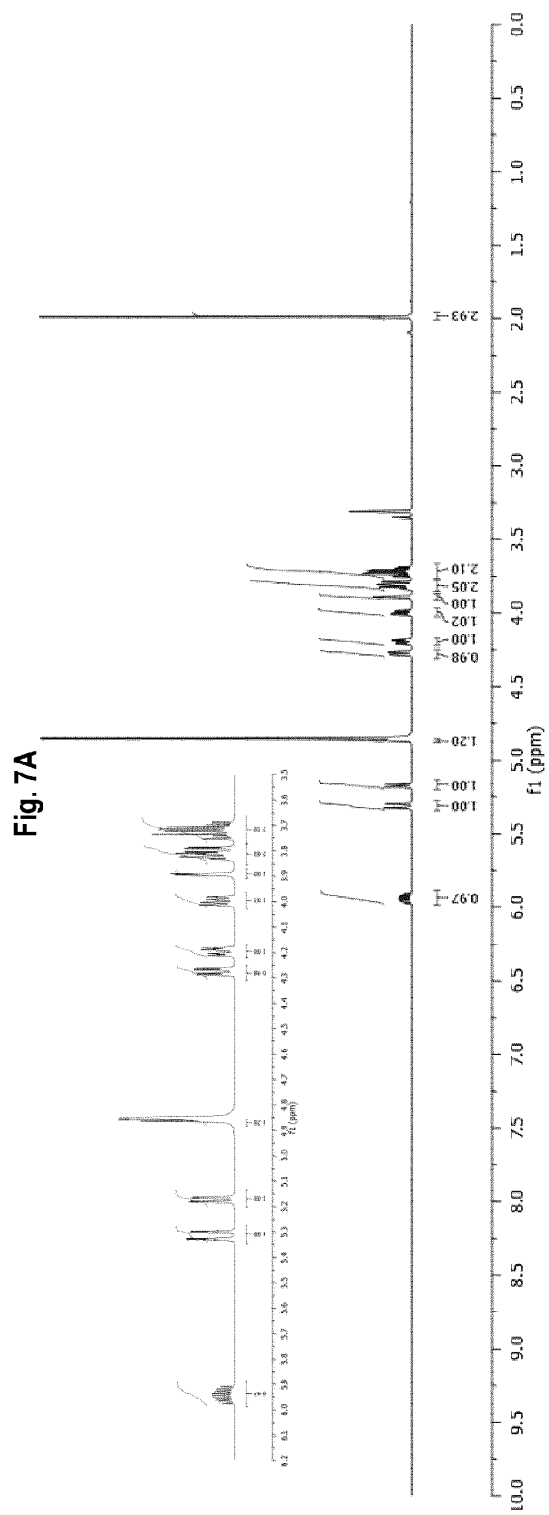


Fig. 7C

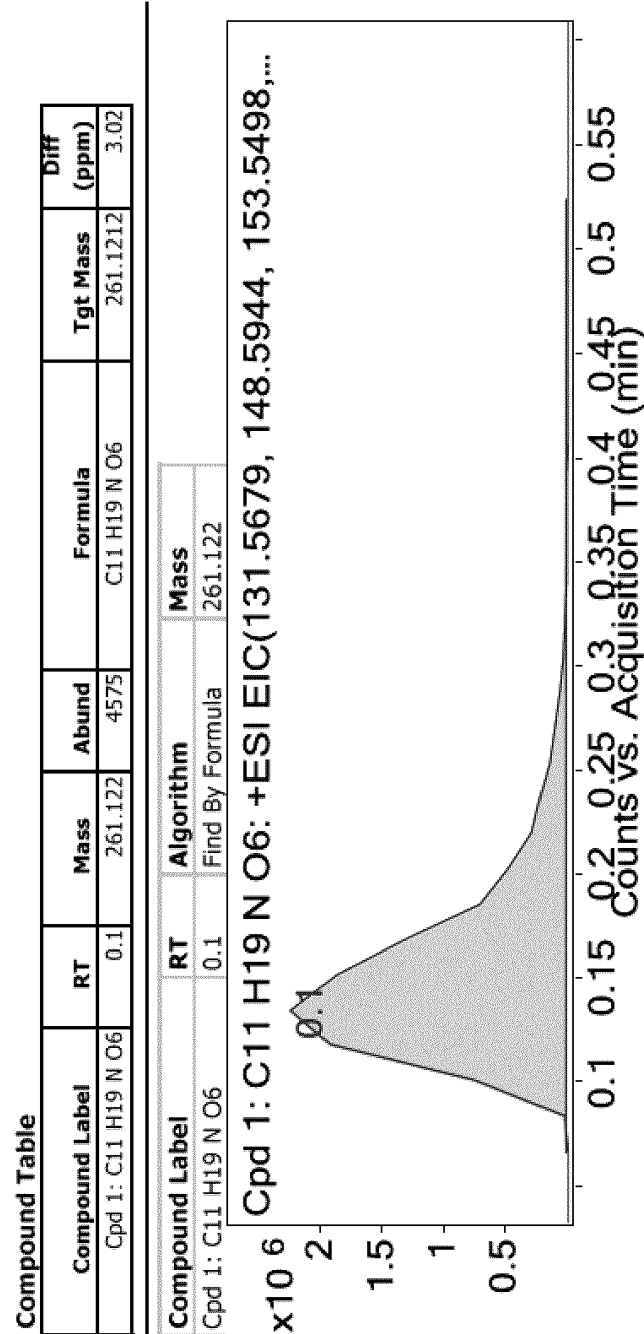


Fig. 7D

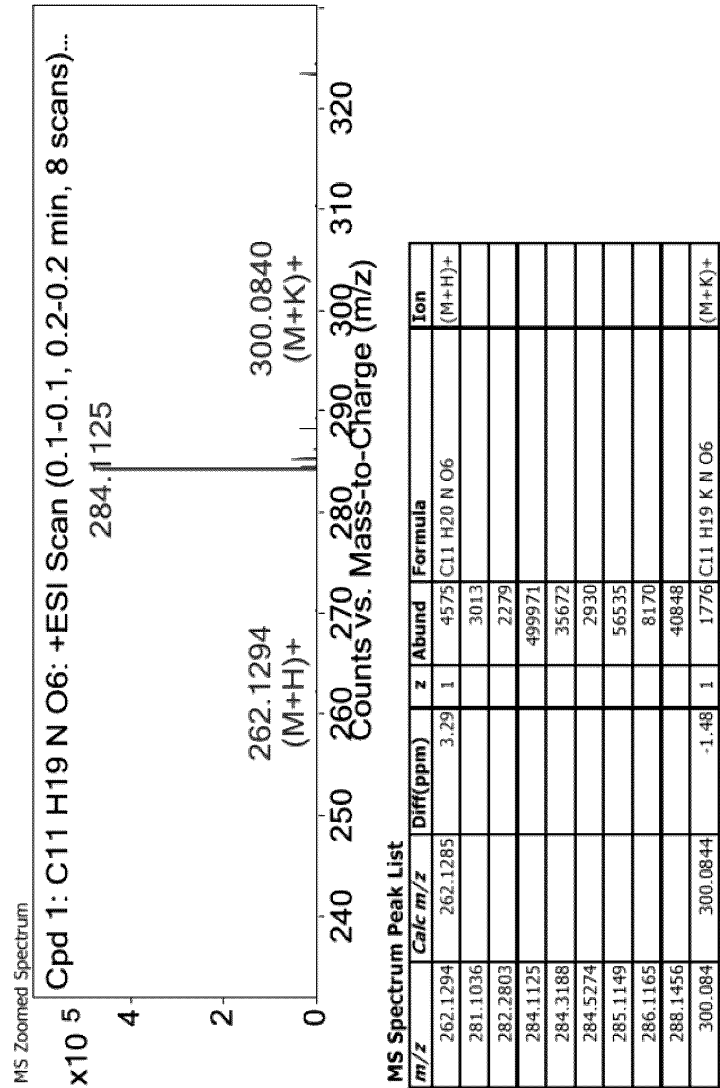


Fig. 8A

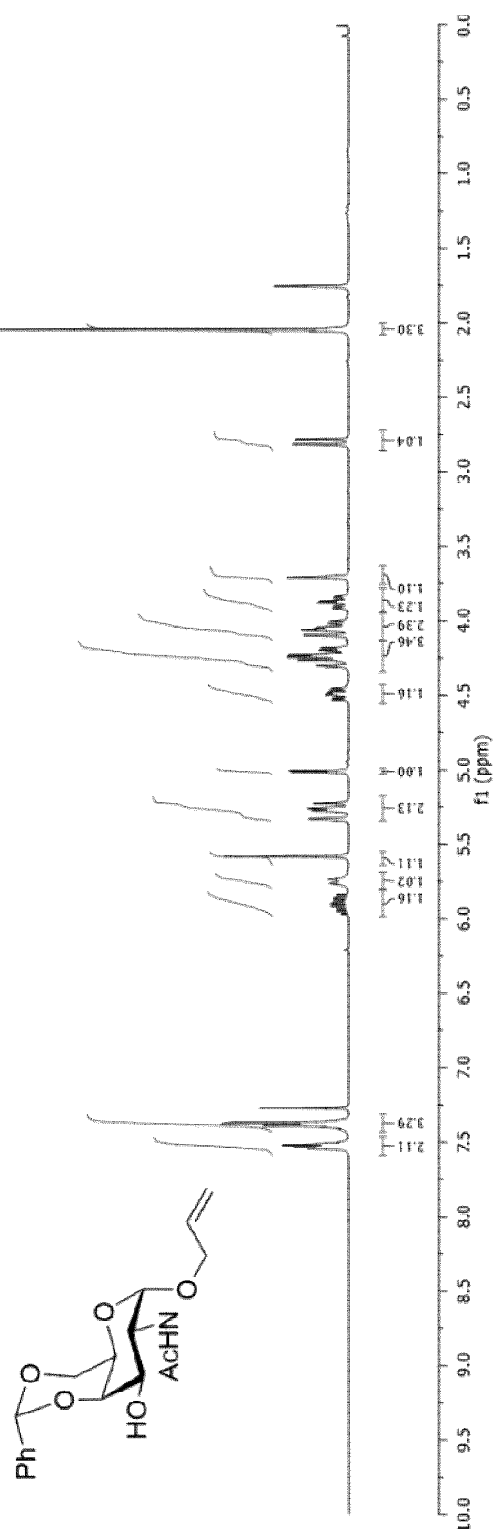


Fig. 8B

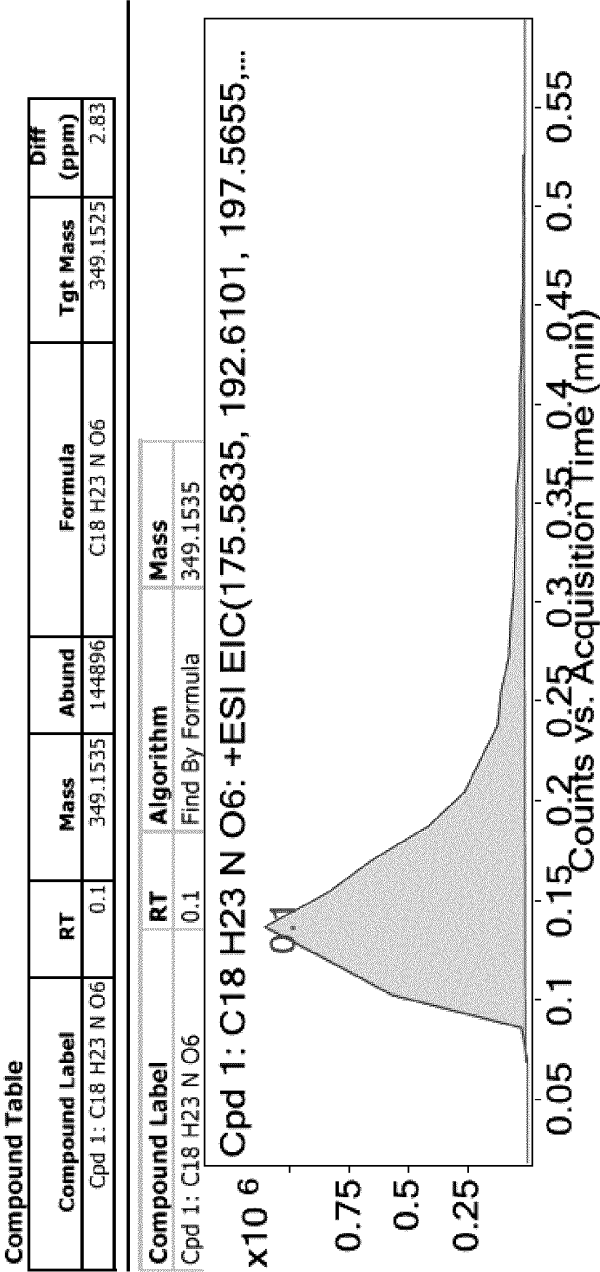


Fig. 8C

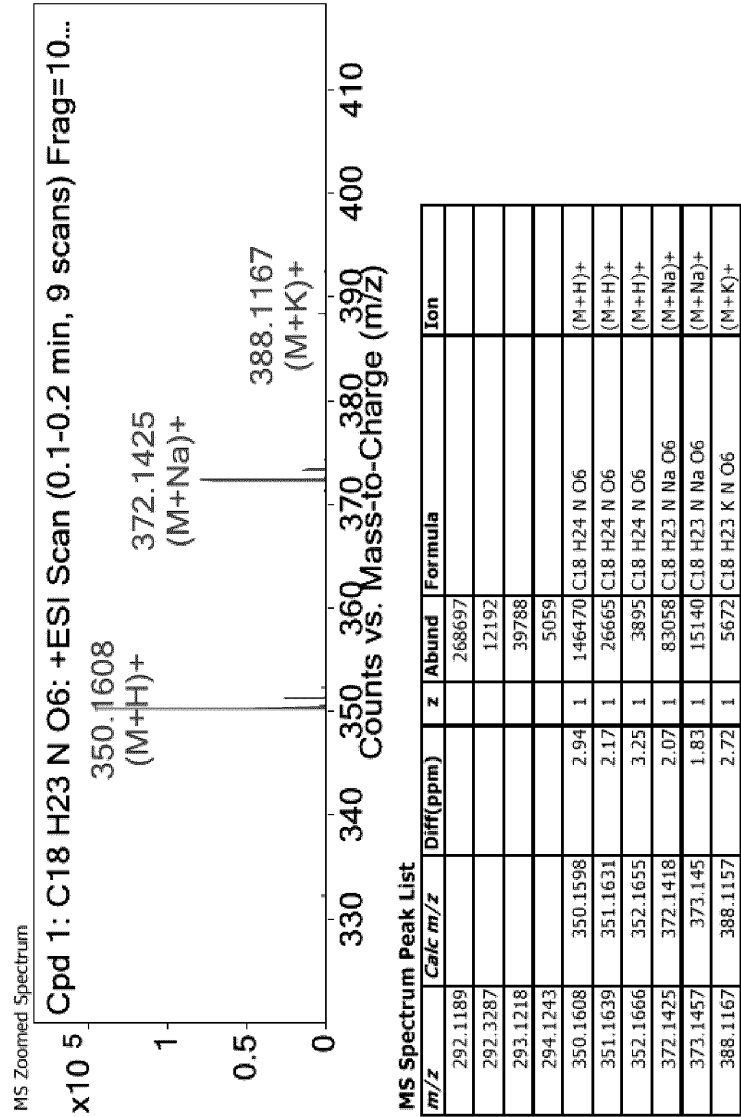


Fig. 9A

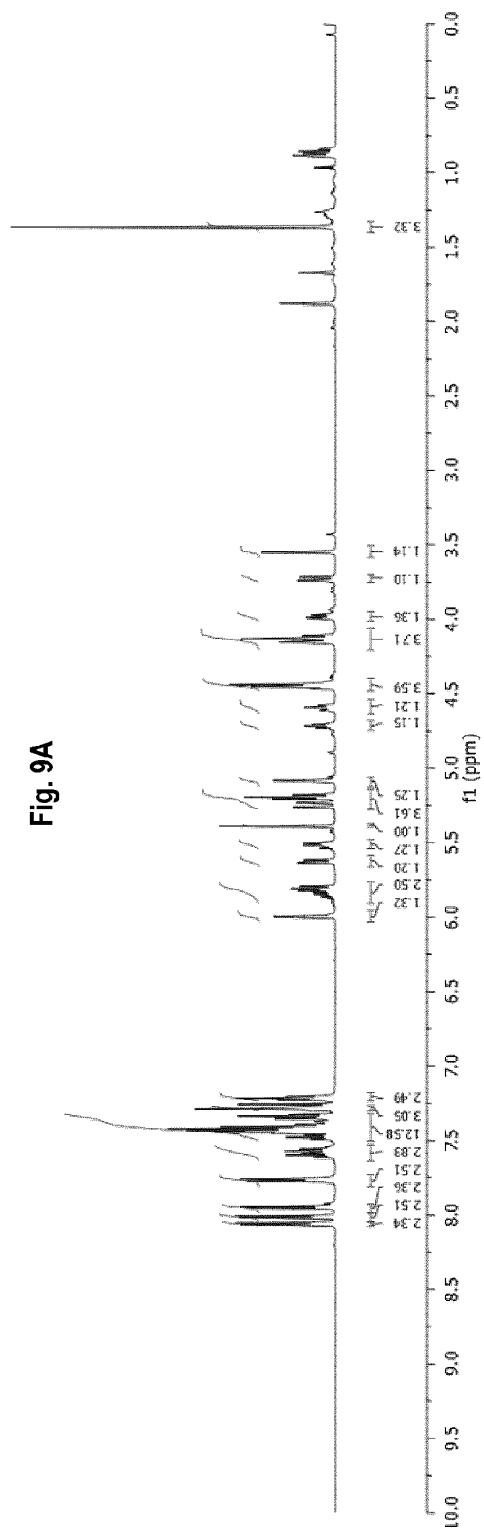


Fig. 9B

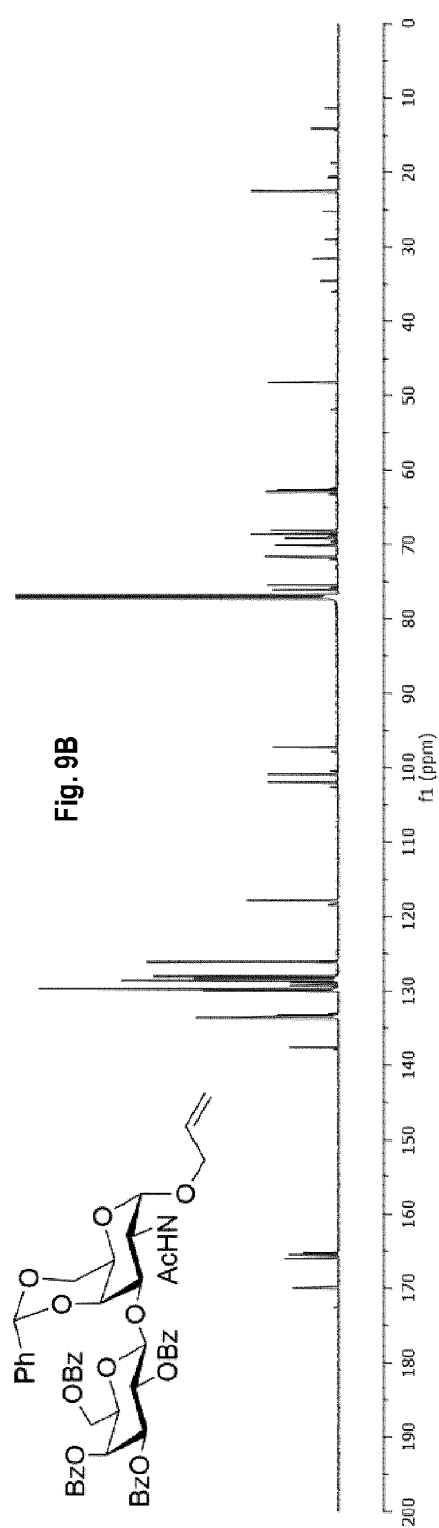


Fig. 9C

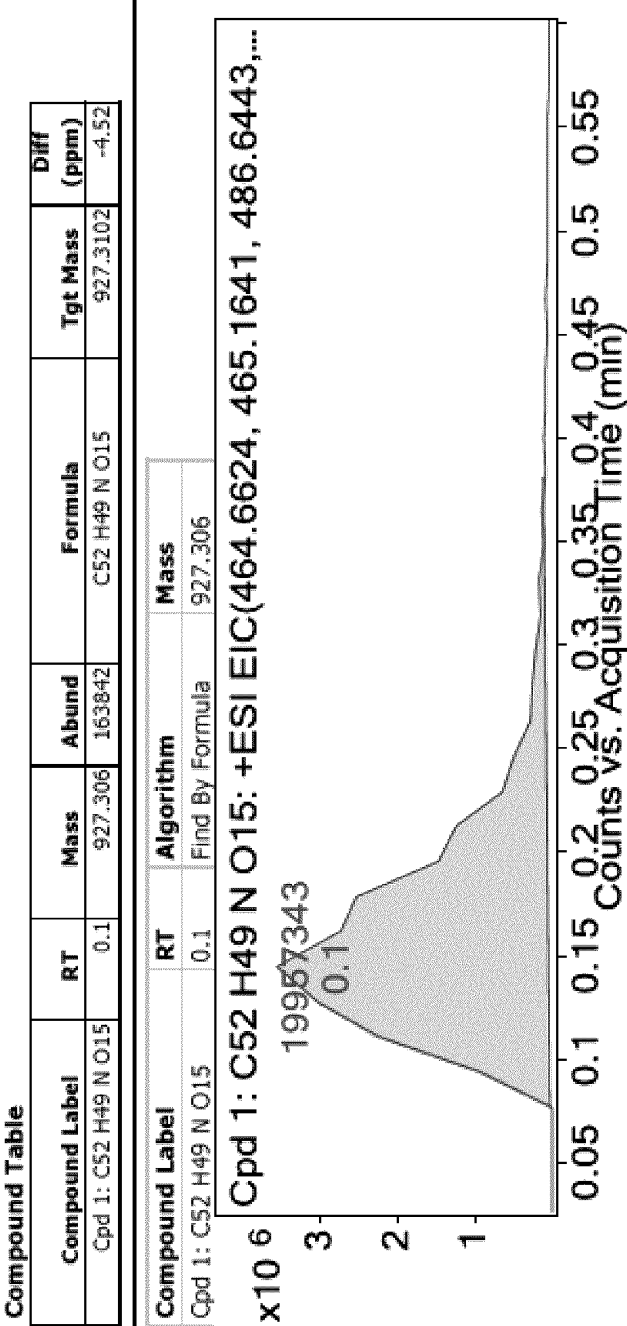


Fig. 9D

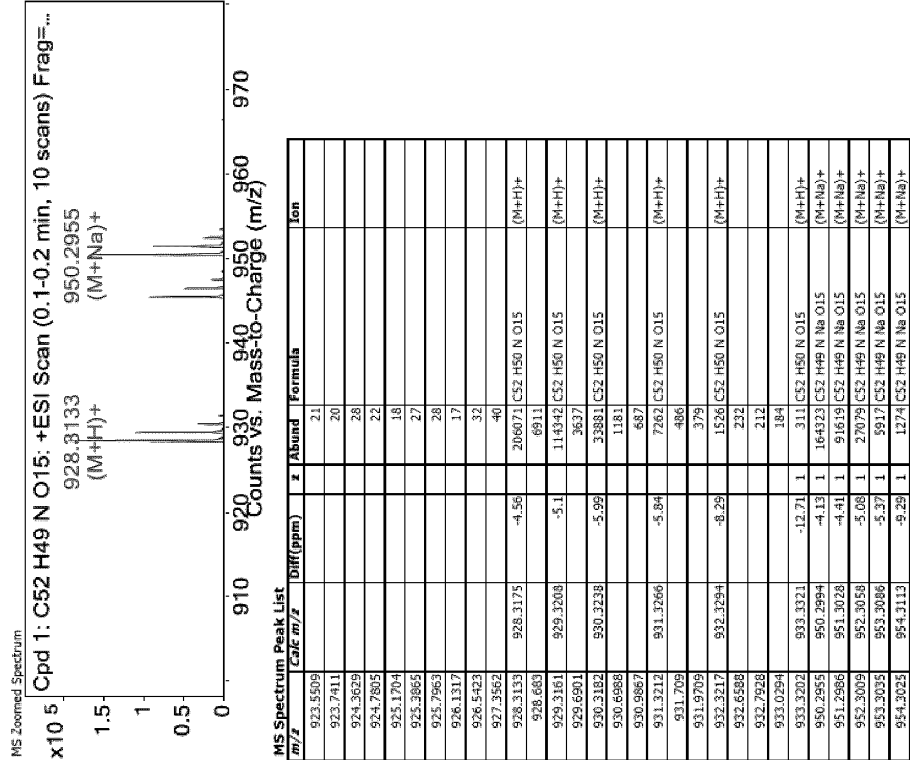
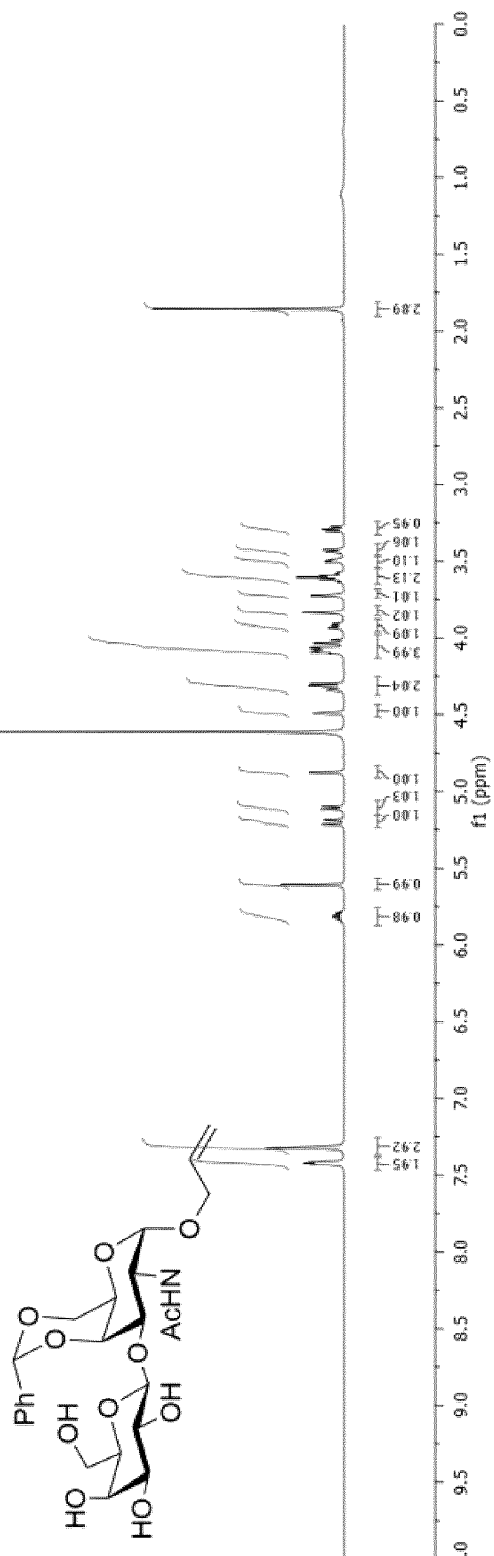


Fig. 10A



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Fig. 10B

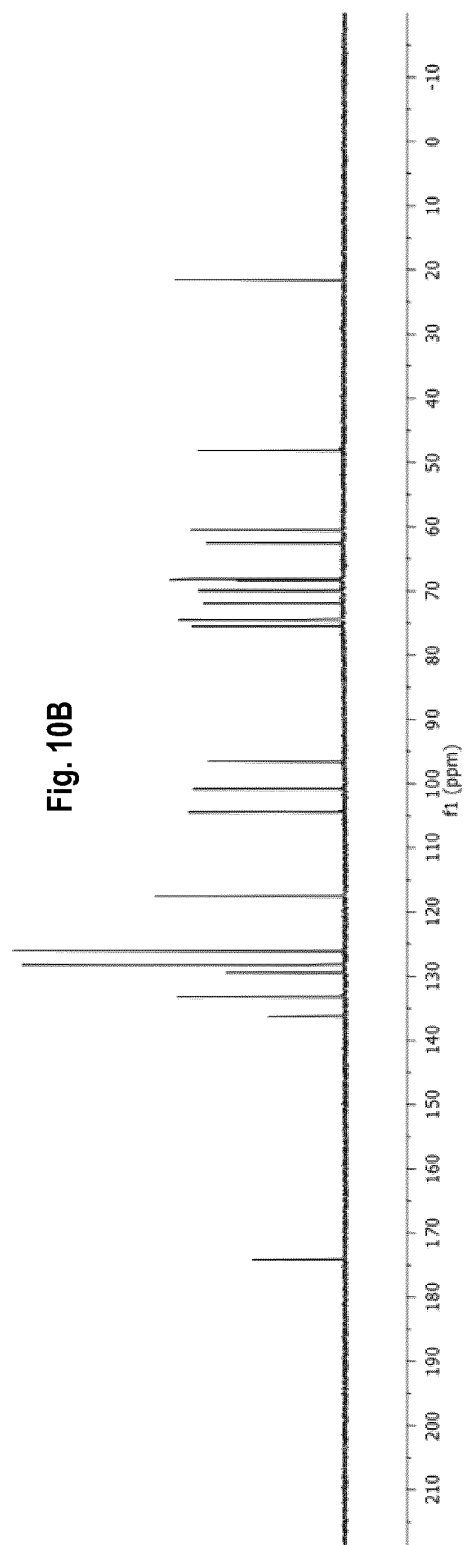


Fig. 10C

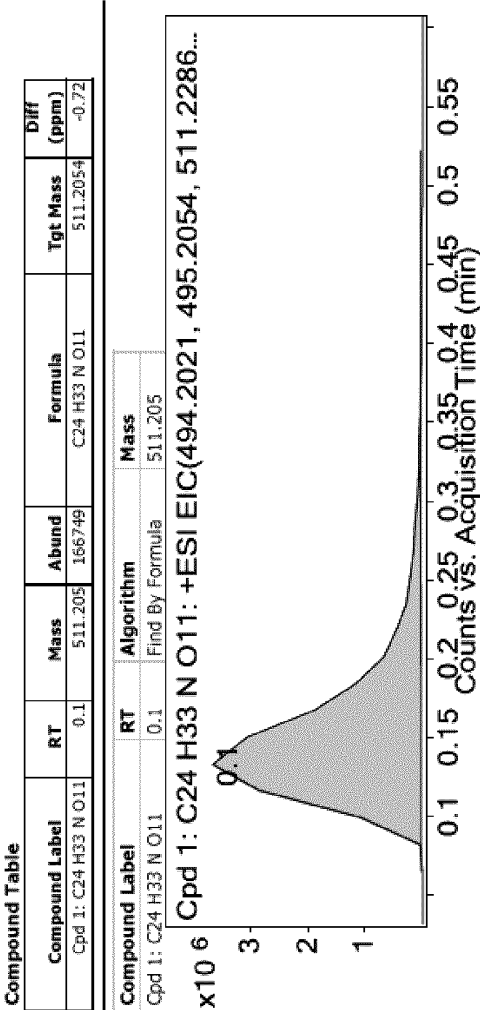
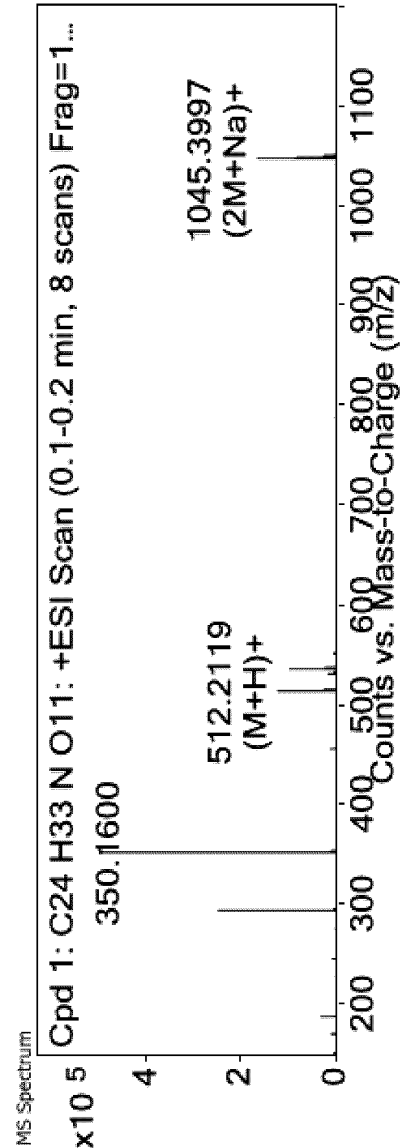


Fig. 10D



MS Spectrum Peak List

m/z	Calc m/z	Diff(ppm)	z	Abund	Formula	Ion
350.16				495714		
351.1626				91586		
512.2119	512.2126	-1.39	1	126315	C24 H34 N O11	(M+H)+
529.2383	529.2392	-1.64	1	20391	C24 H37 N2 O11	(M+NH4)+
534.1943	534.1946	-0.47	1	103350	C24 H33 N Na O11	(M+Na)+
550.1667	550.1685	-3.25	1	6050	C24 H33 K N O11	(M+K)+
1023.4185	1023.418	0.53	1	295	C48 H67 N2 O22	(2M+H)+
1040.4393	1040.4445	-5.01	1	1591	C48 H70 N3 O22	(2M+NH4)+
1045.3997	1045.3999	-0.25	1	171974	C48 H66 N2 Na O22	(2M+Na)+
1061.3716	1061.3739	-2.14	1	1026	C48 H66 K N2 O22	(2M+K)+

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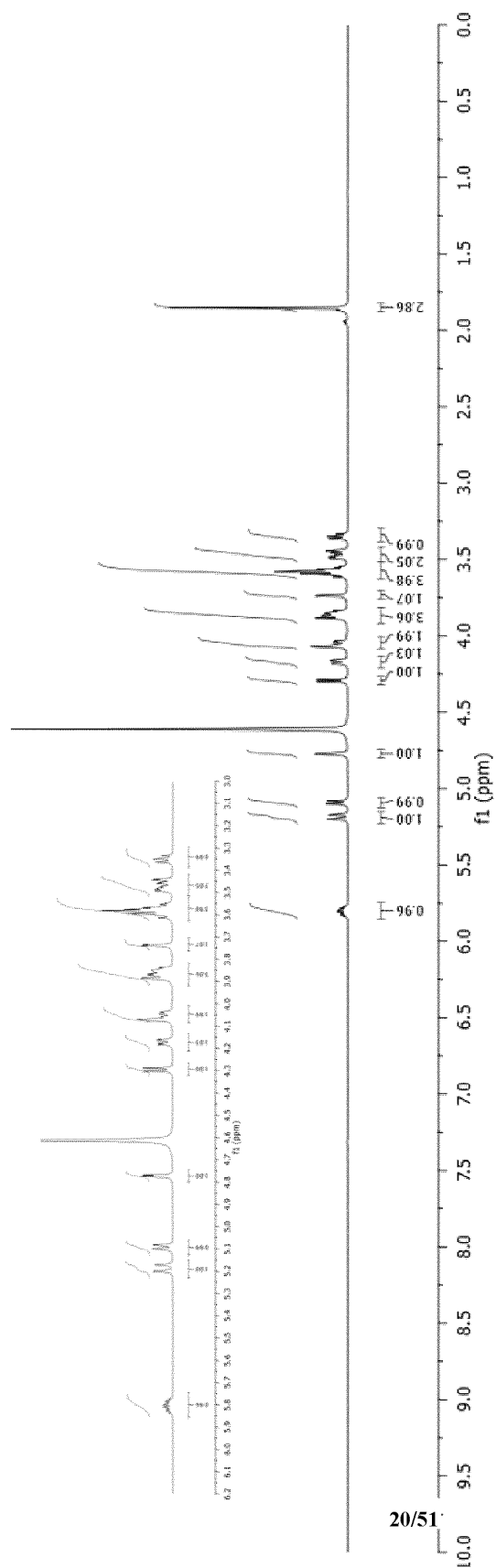


Fig. 11B

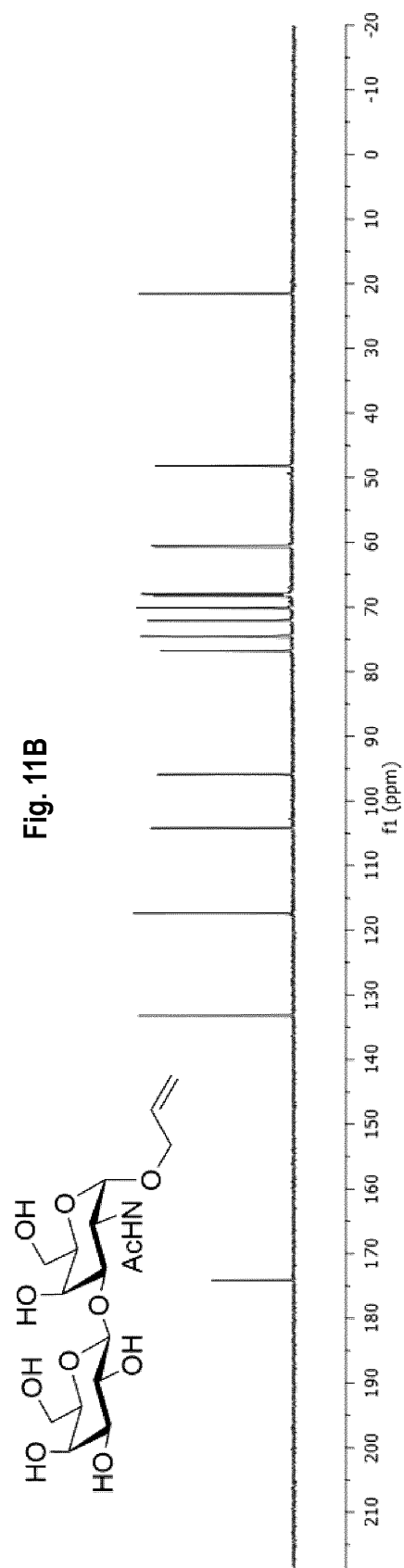


Fig. 11C

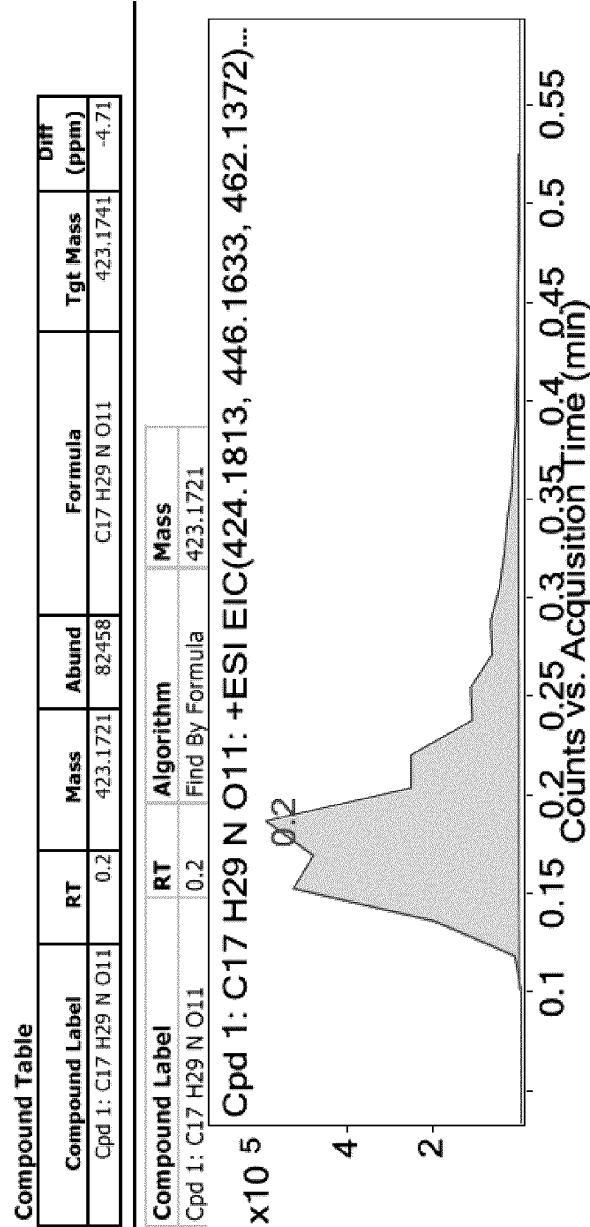


Fig. 11D

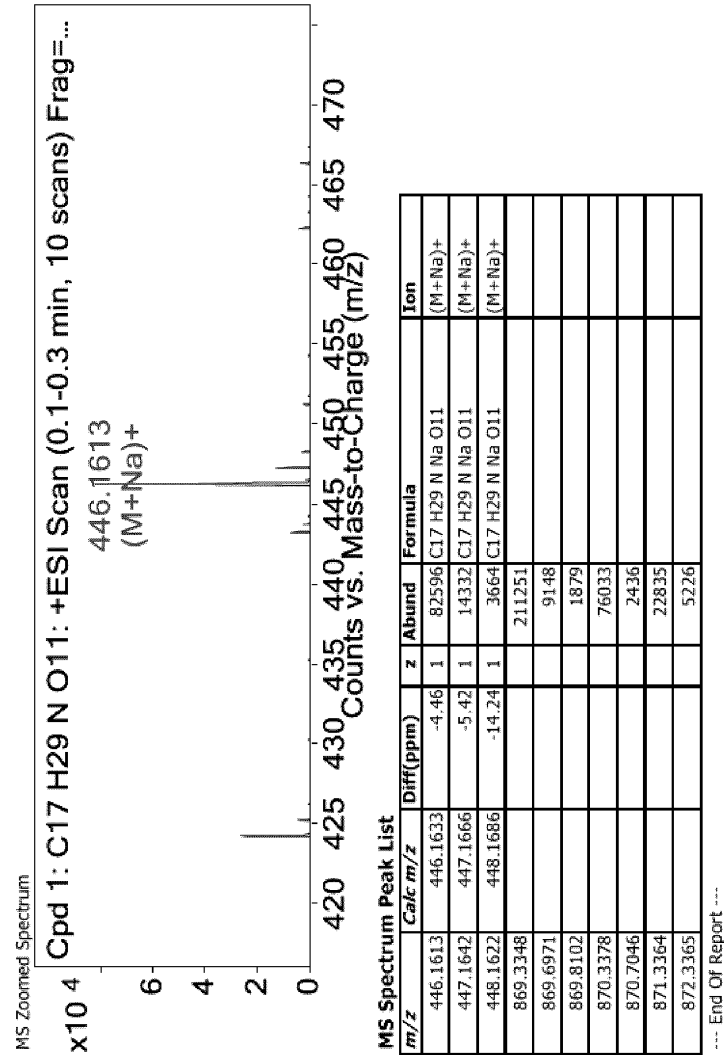
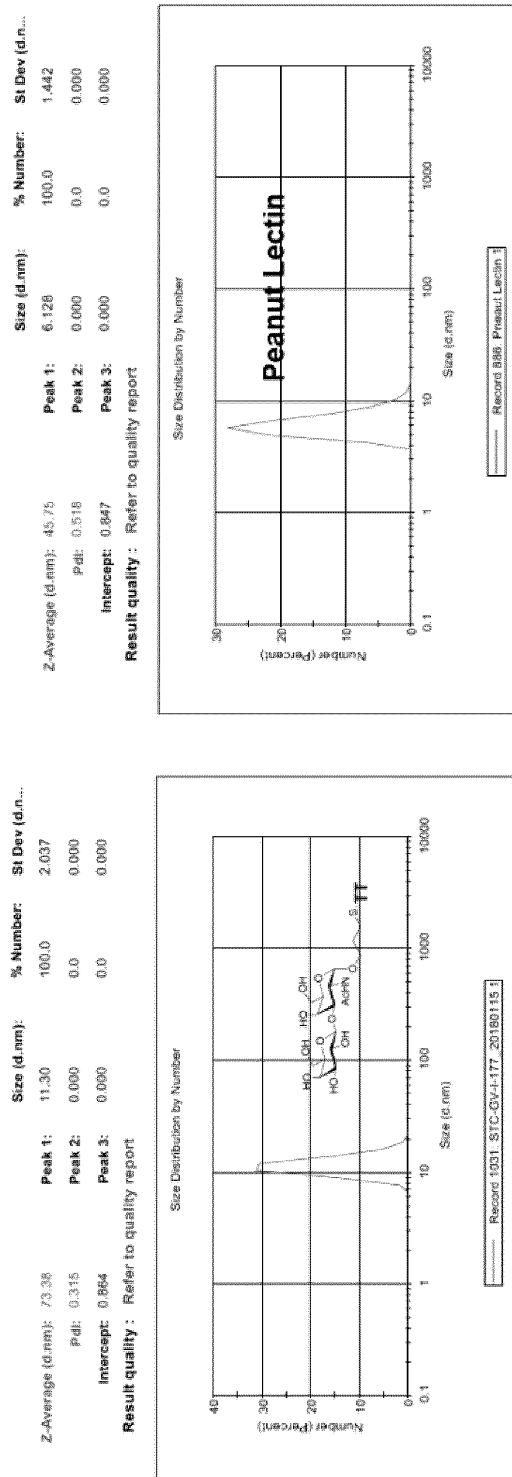


Fig. 12



Results

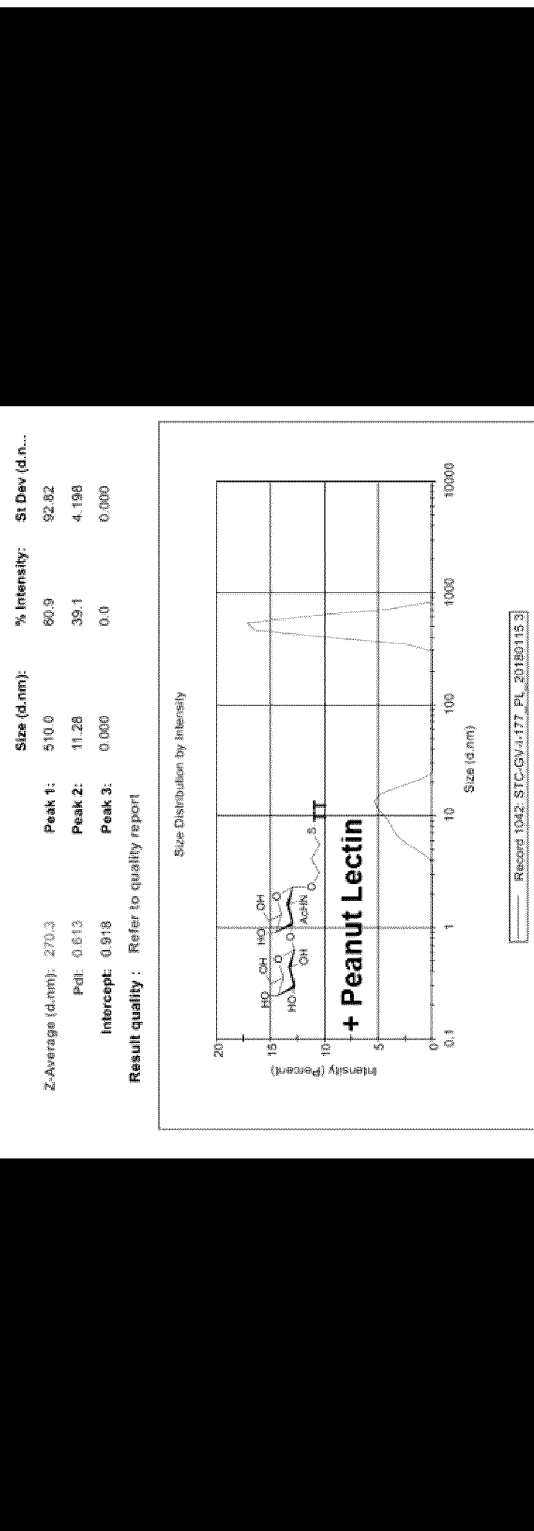


Fig. 13

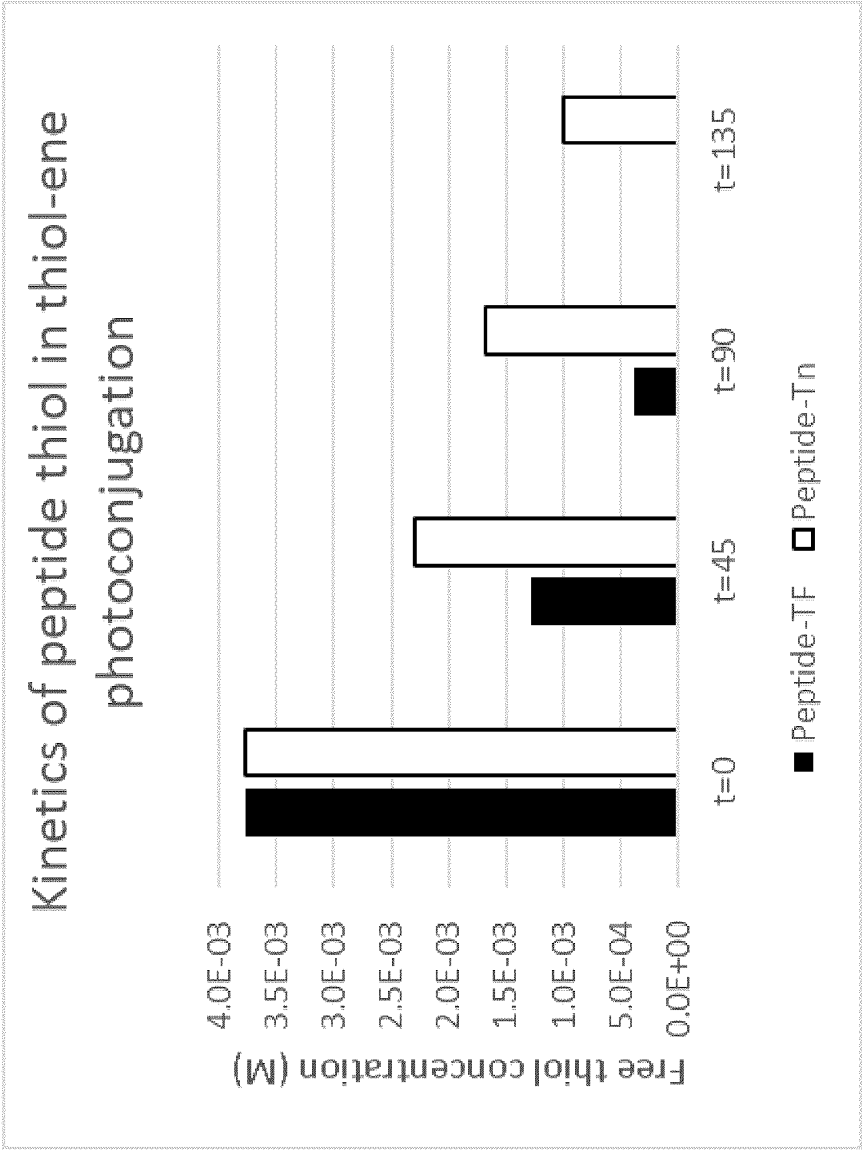


Fig. 14

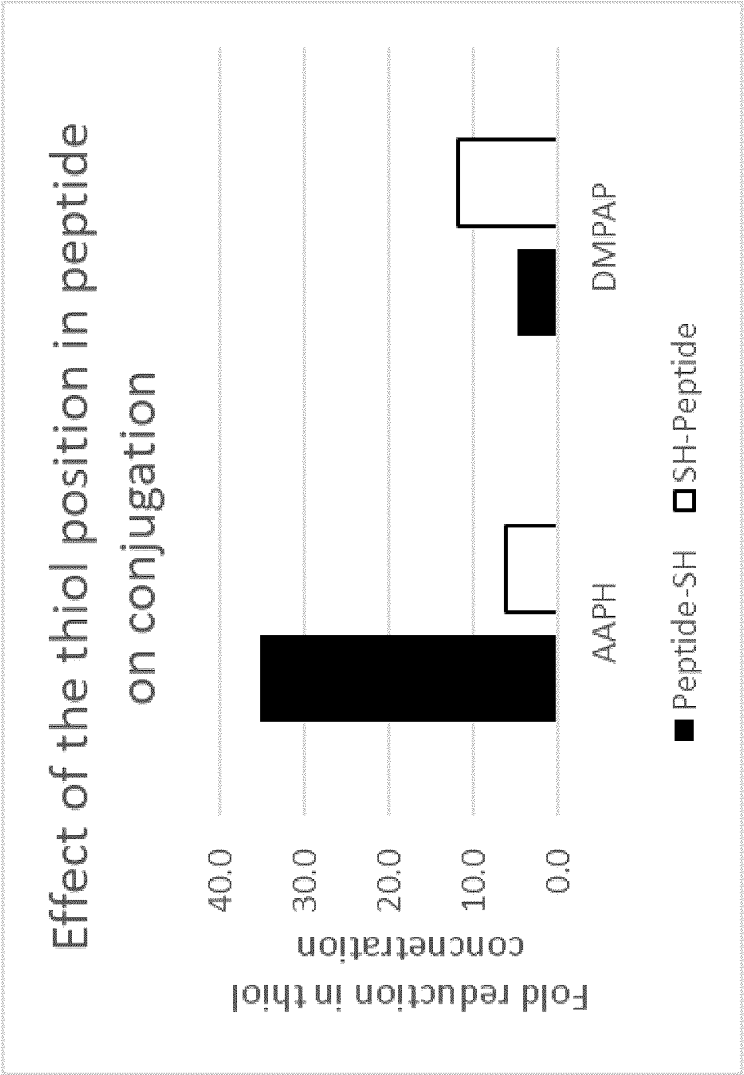


Fig. 15

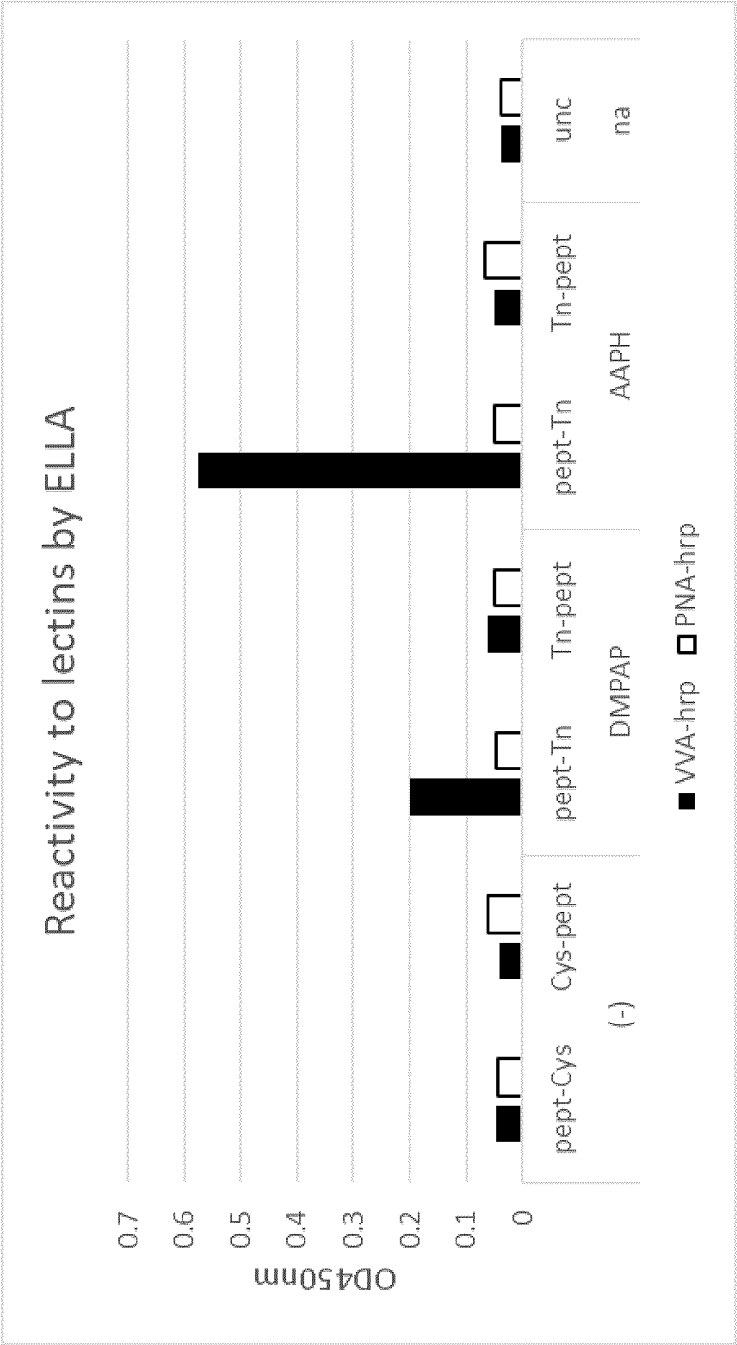


Fig. 16

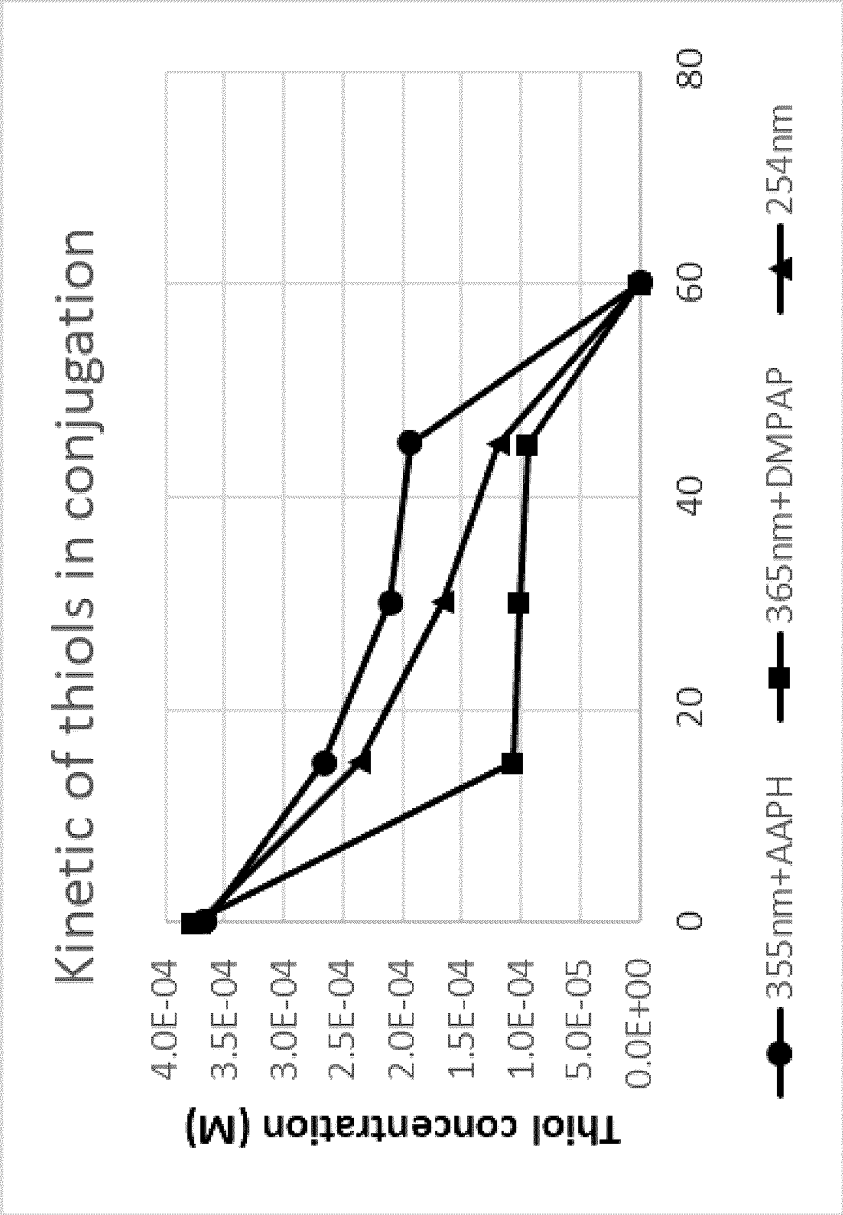


Fig. 17

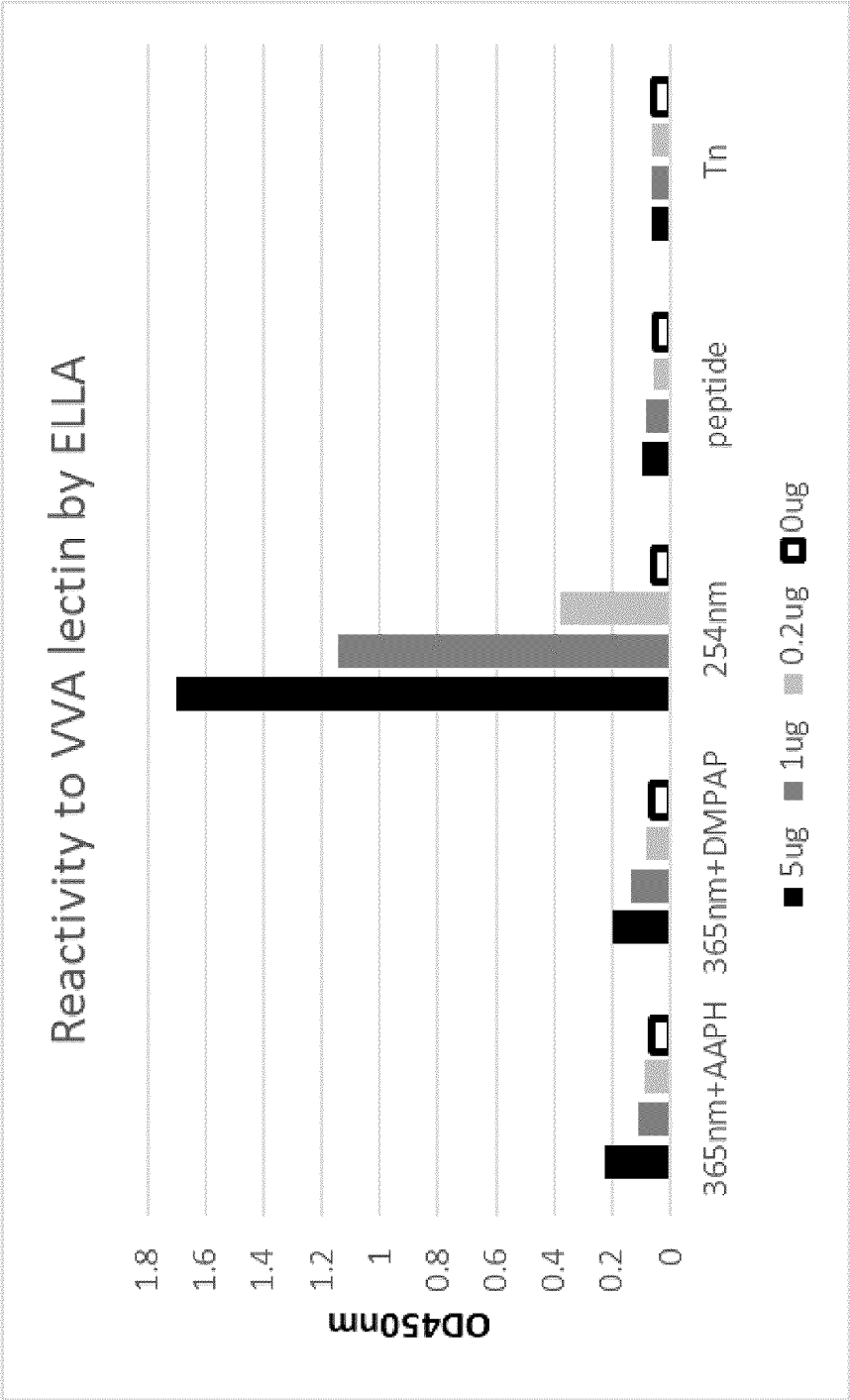


Fig. 18

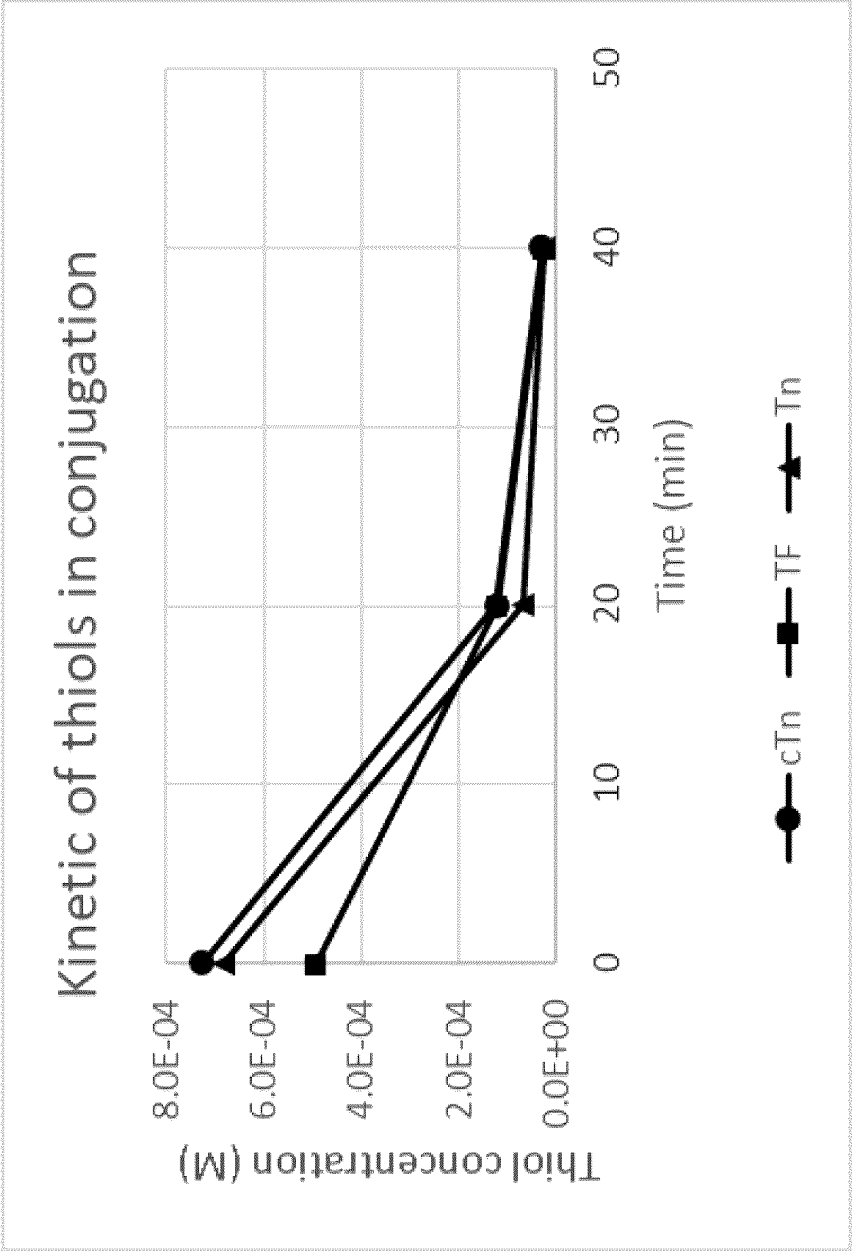


Fig. 19

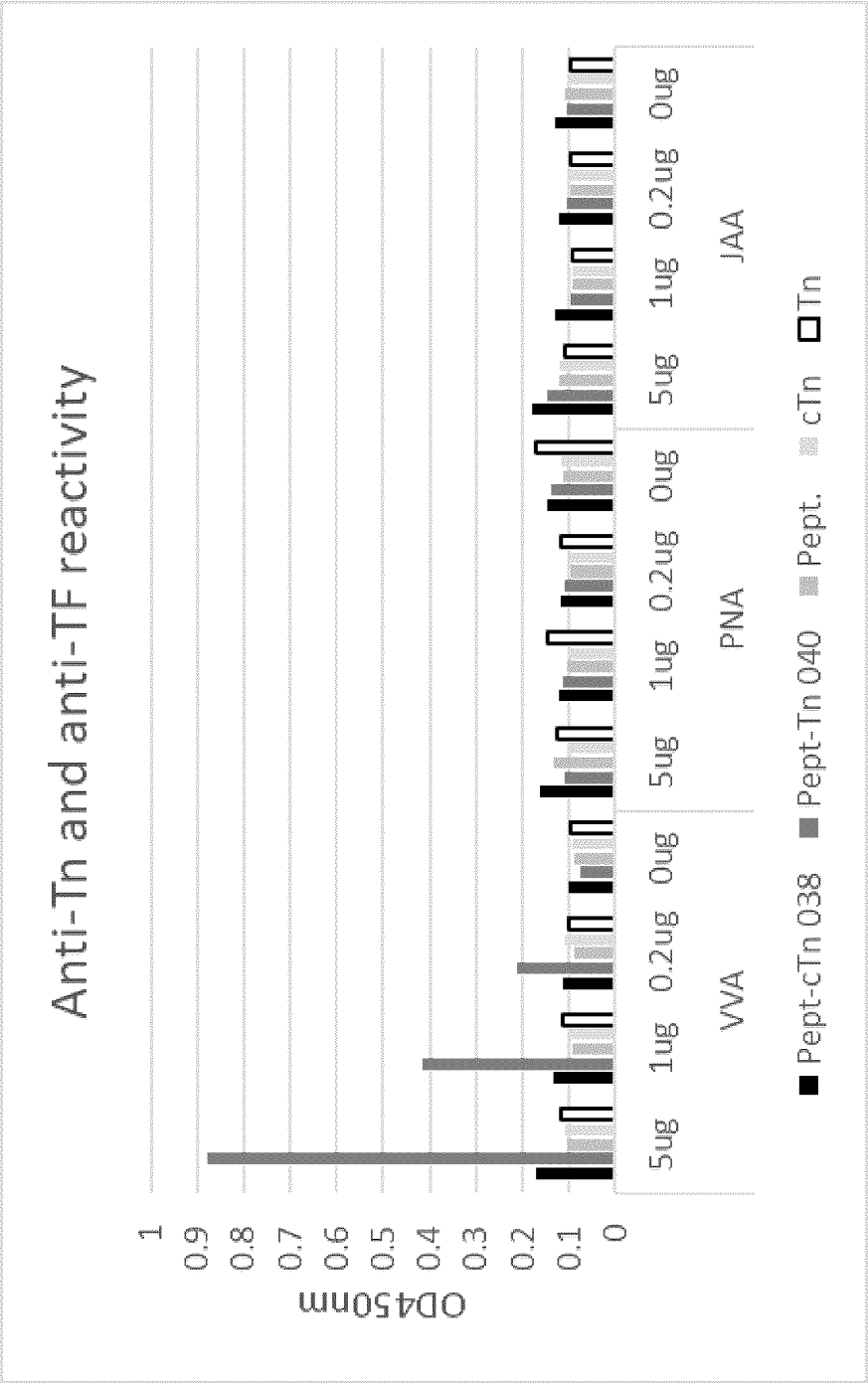


Fig. 20

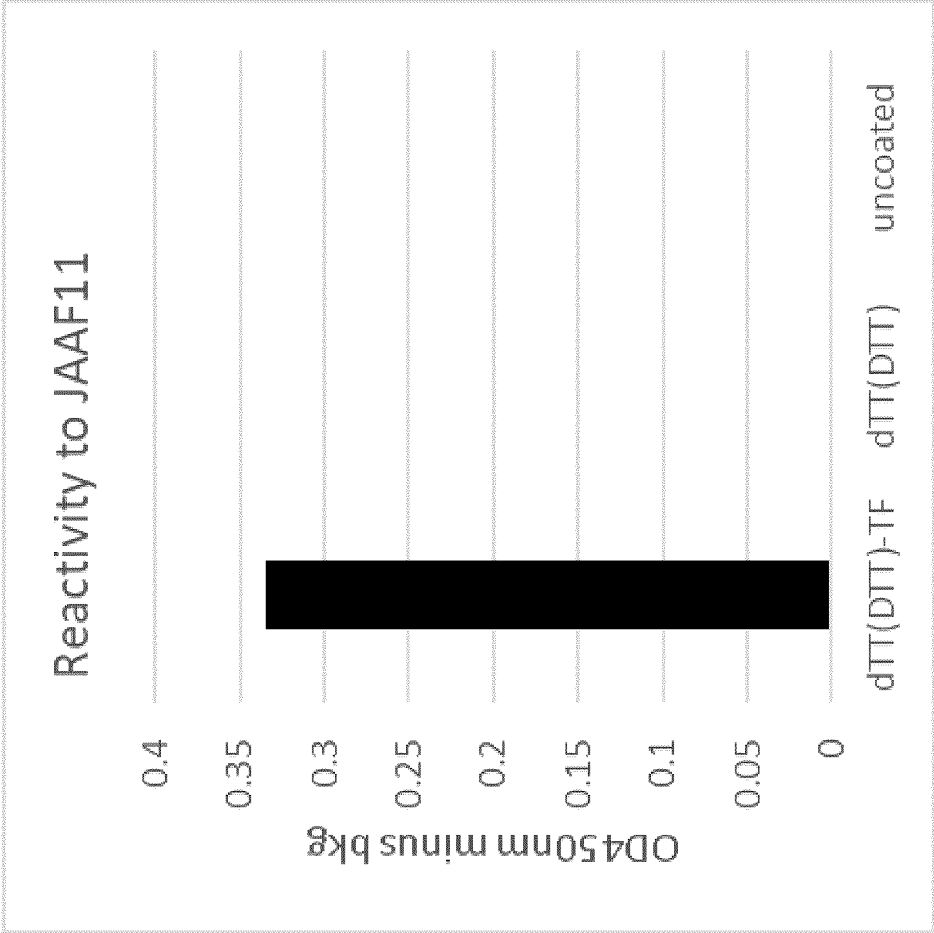


Fig. 21

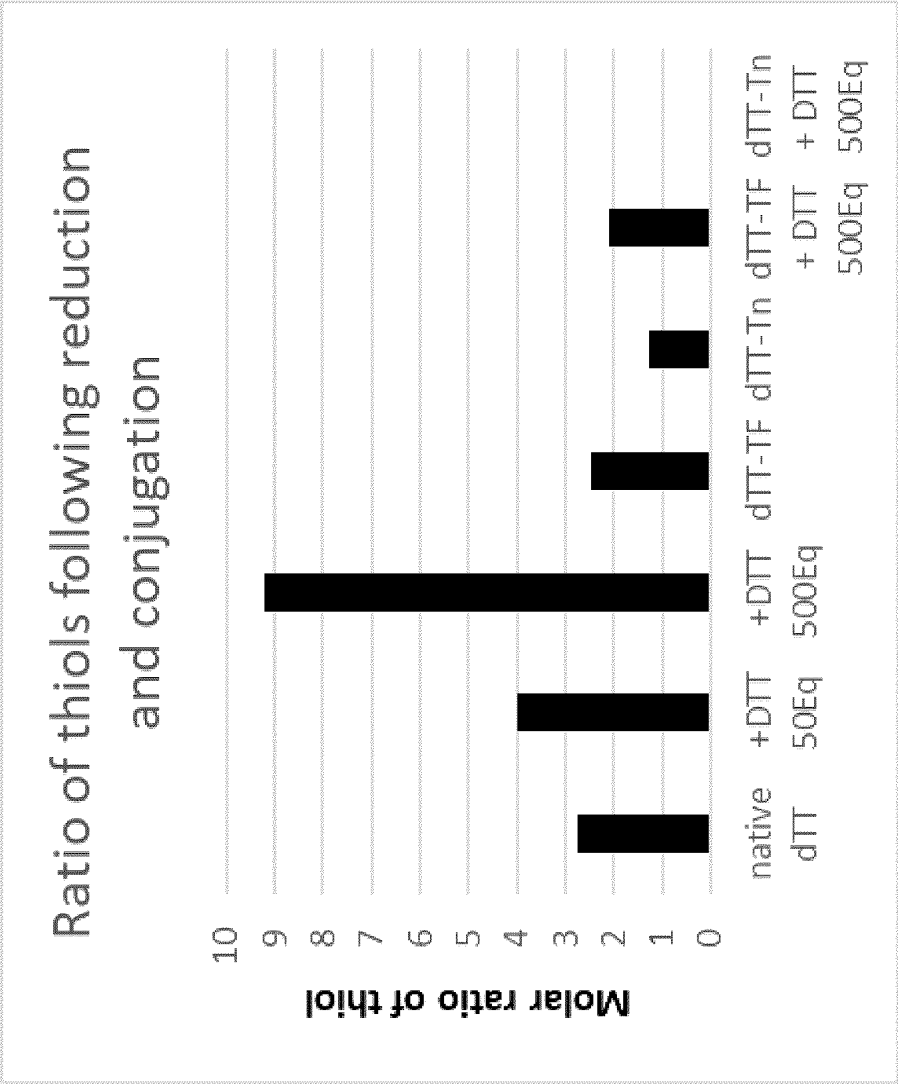


Fig. 22

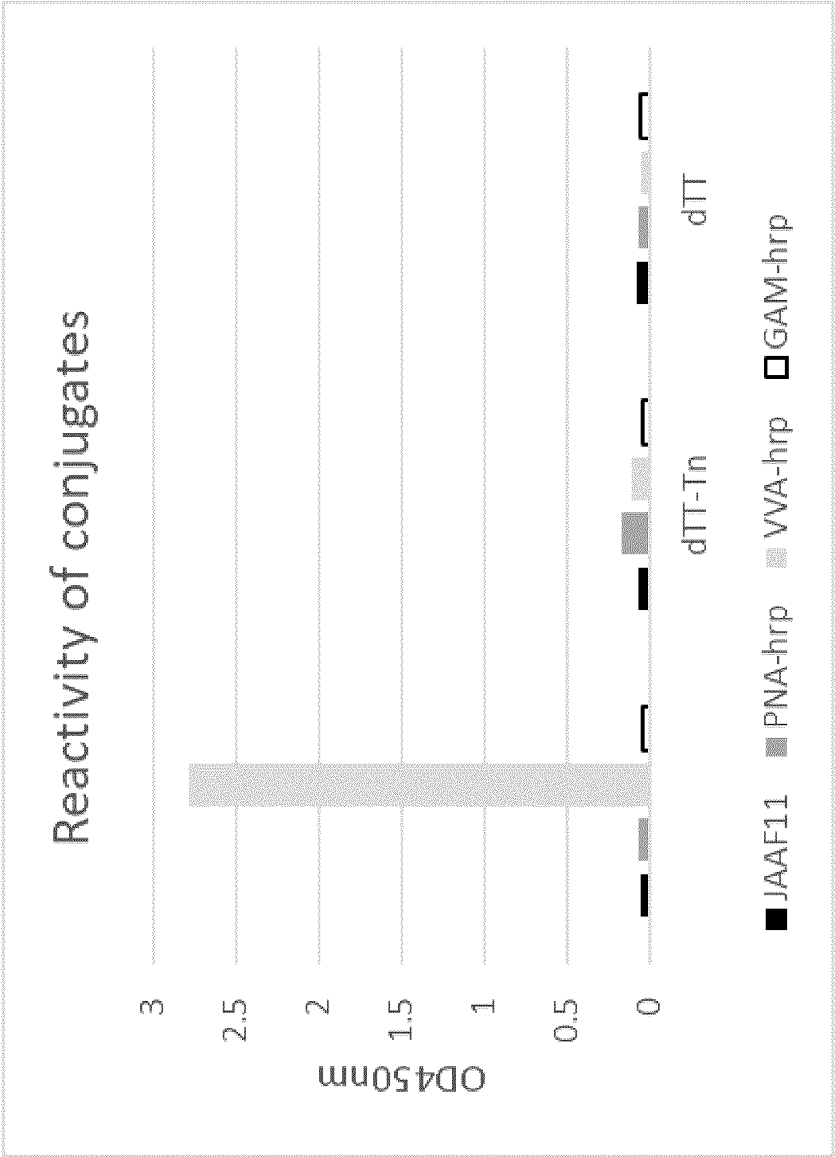


Fig. 23

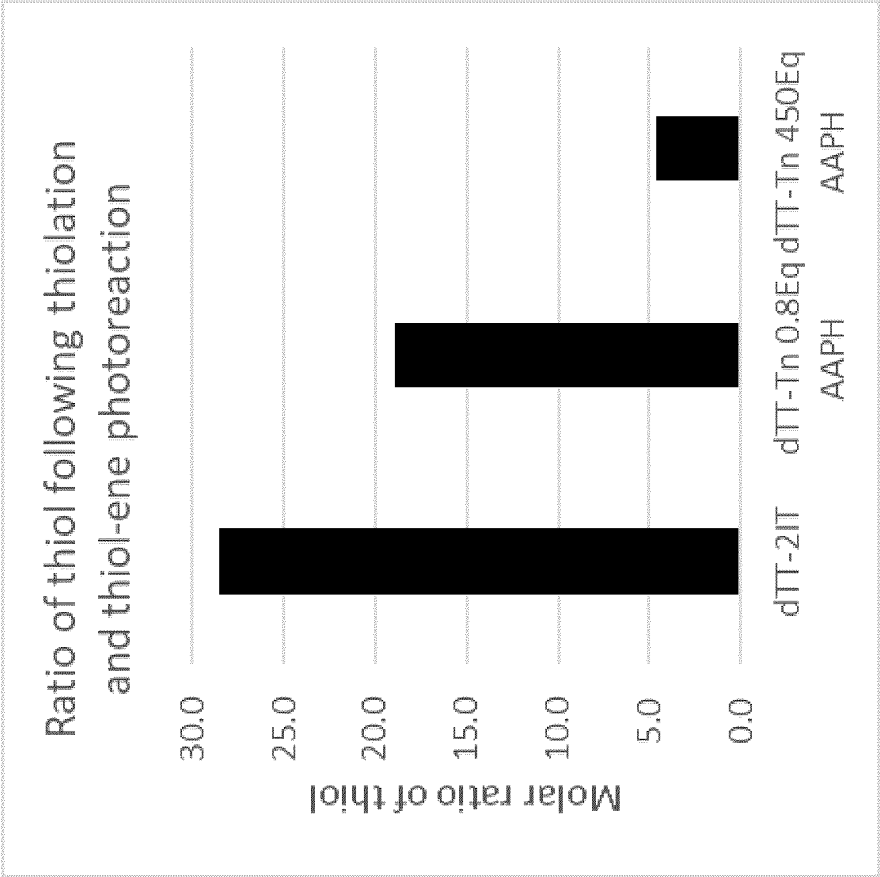


Fig. 24

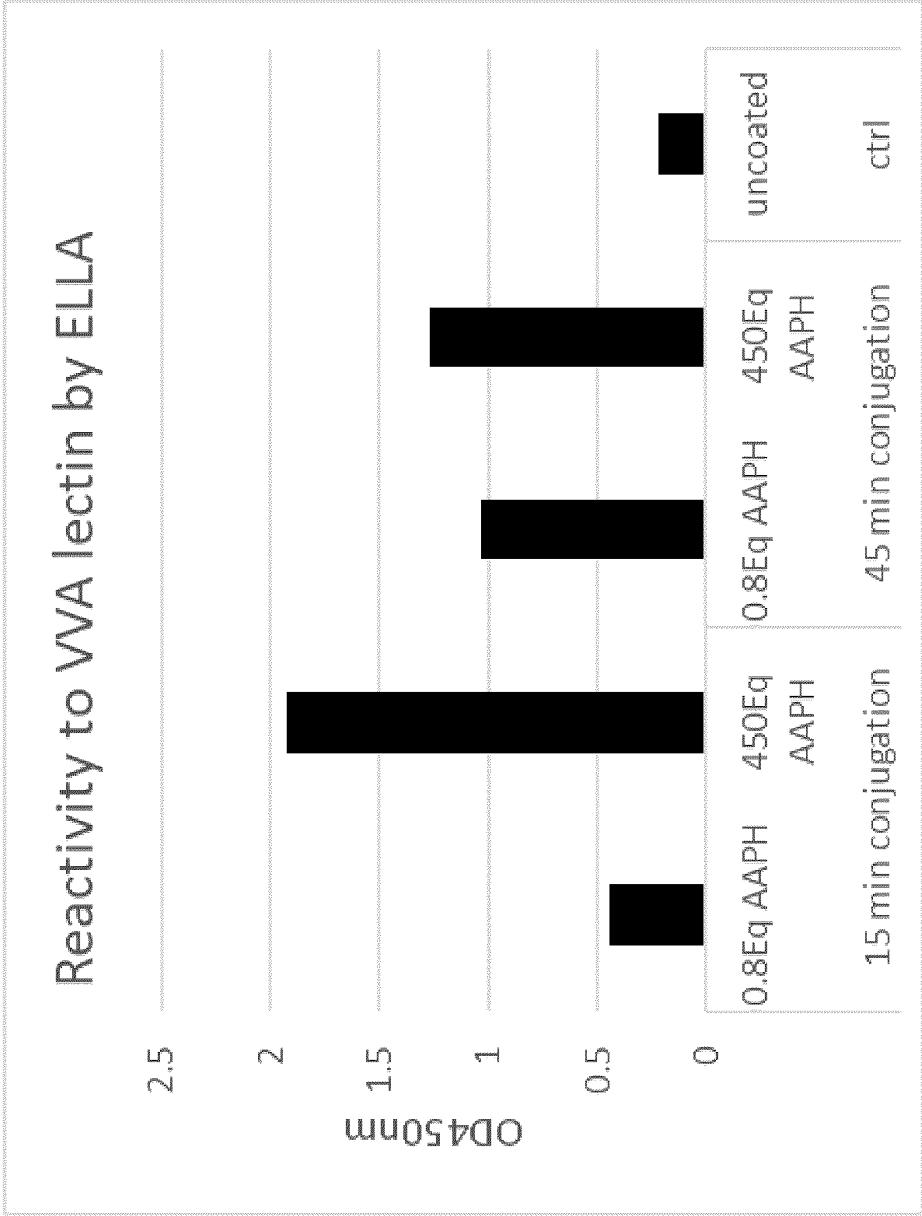


Fig. 25

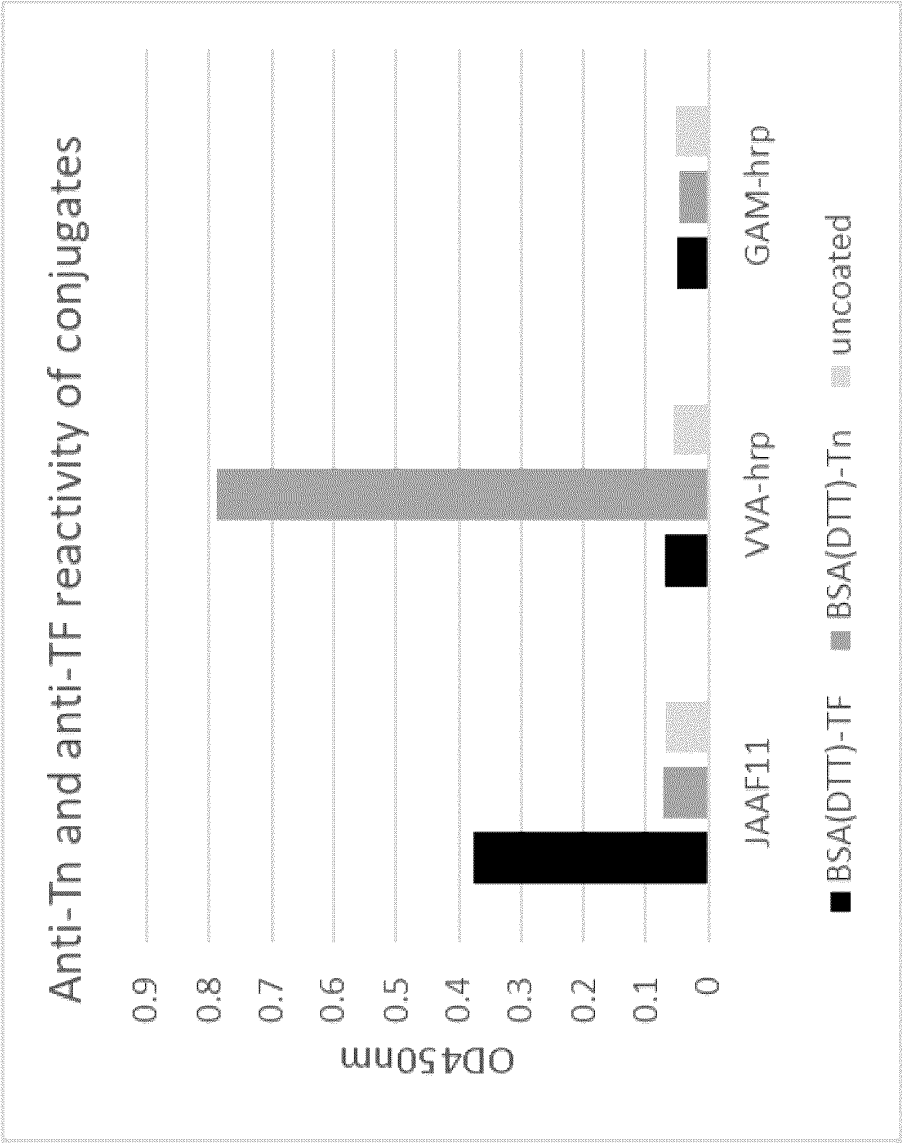


Fig. 26

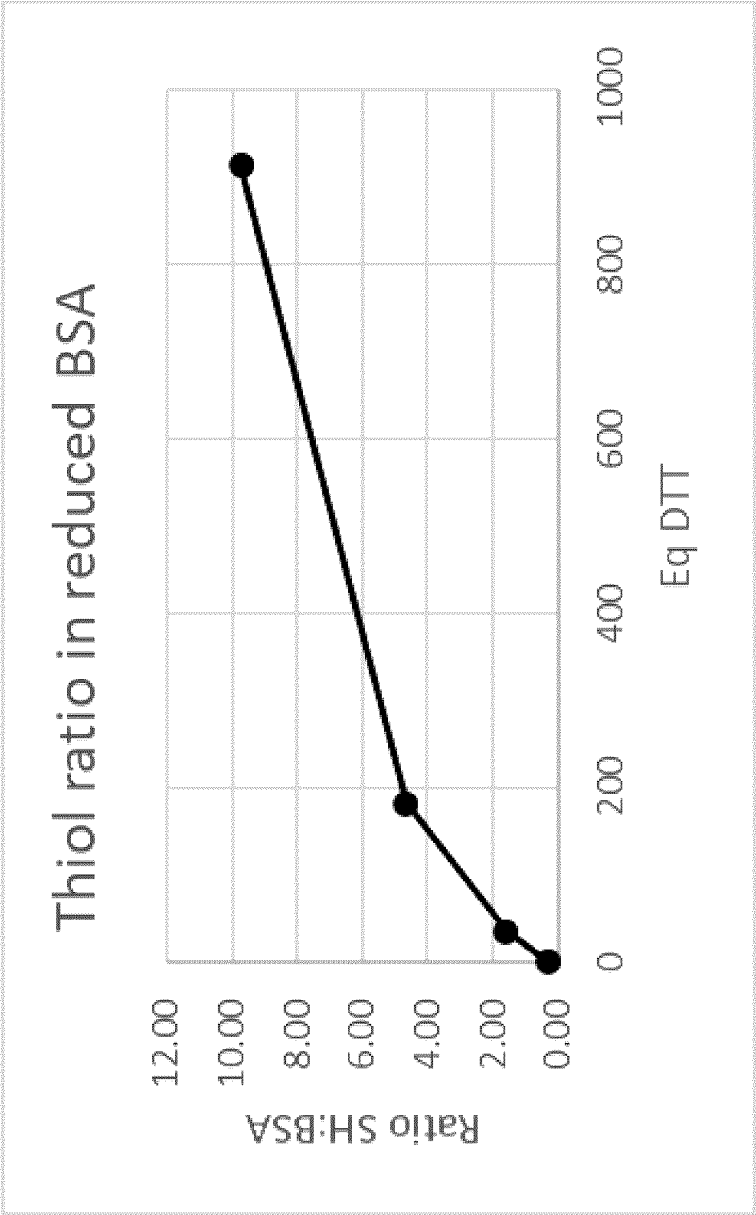


Fig. 27

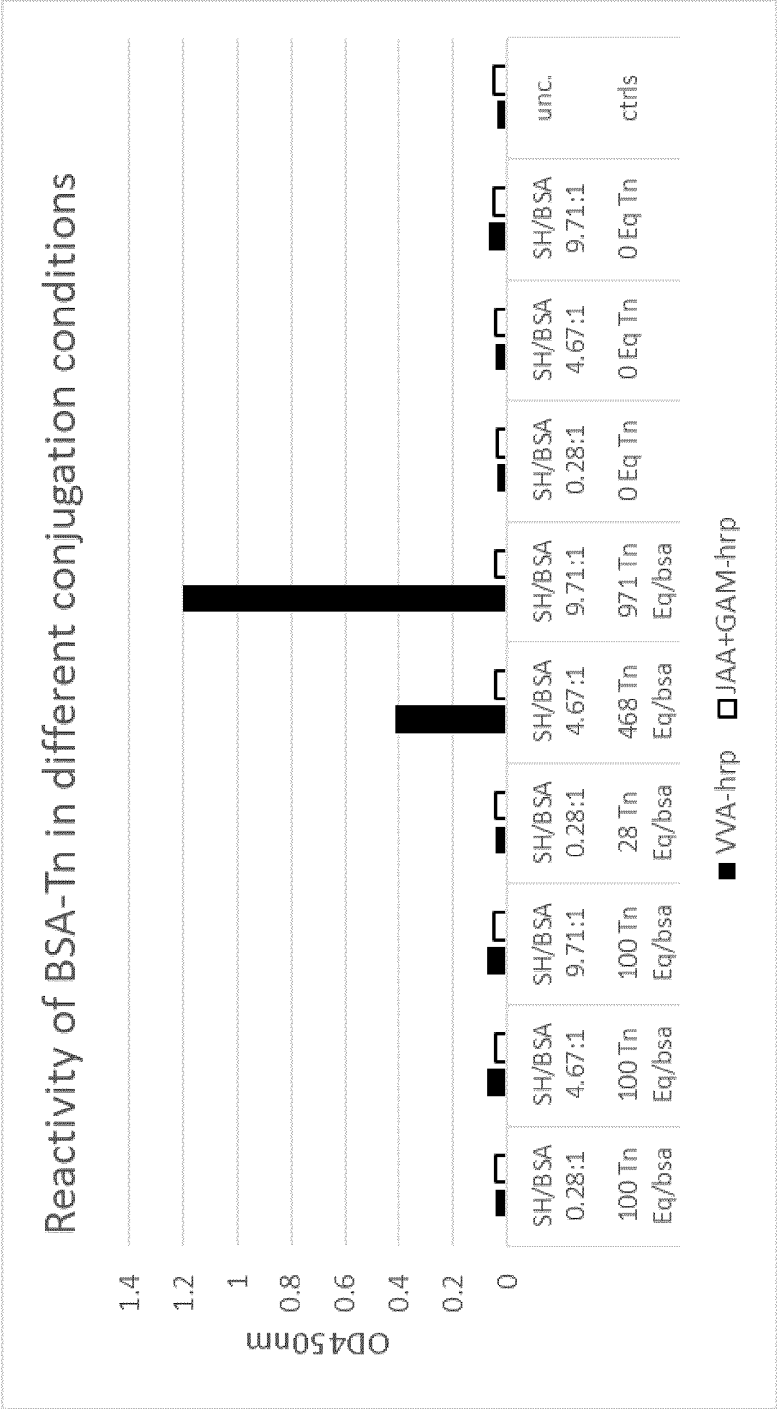


Fig. 28

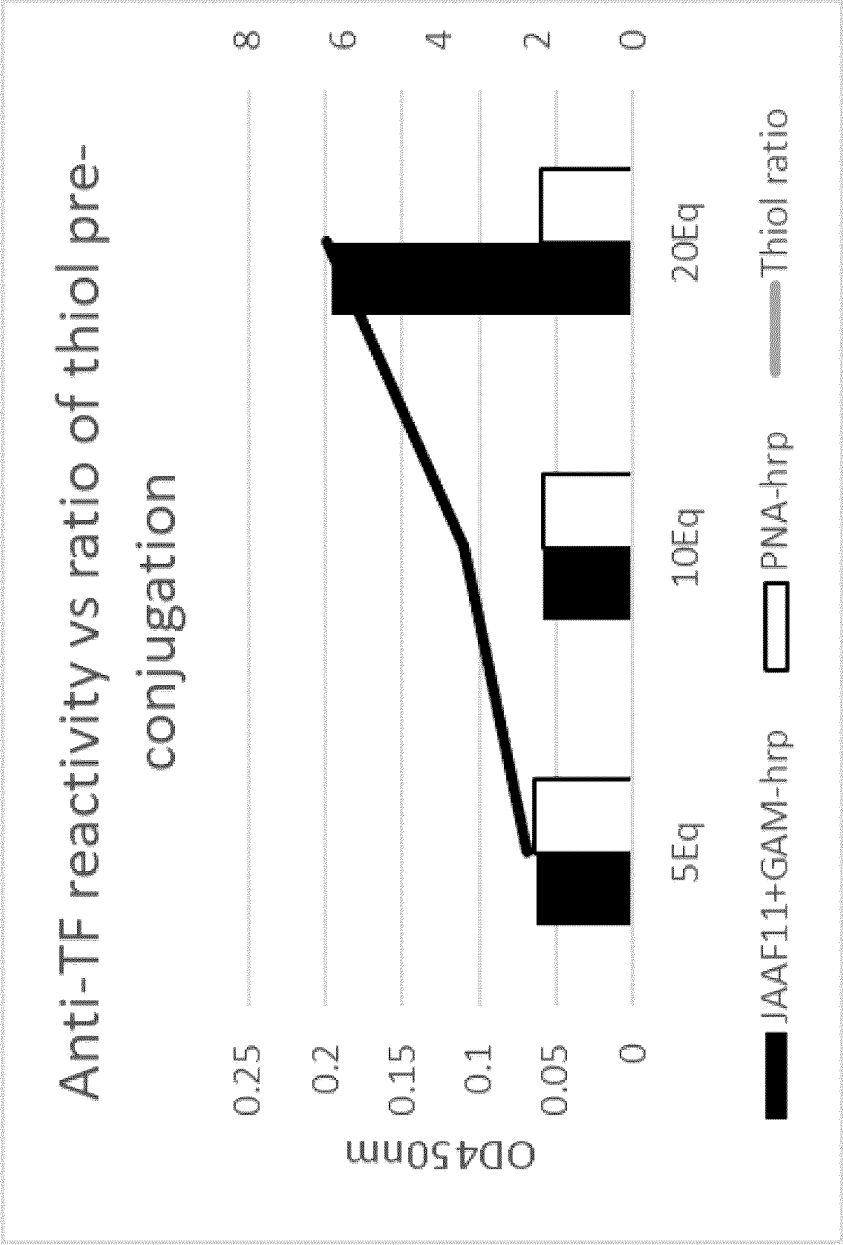


Fig. 29

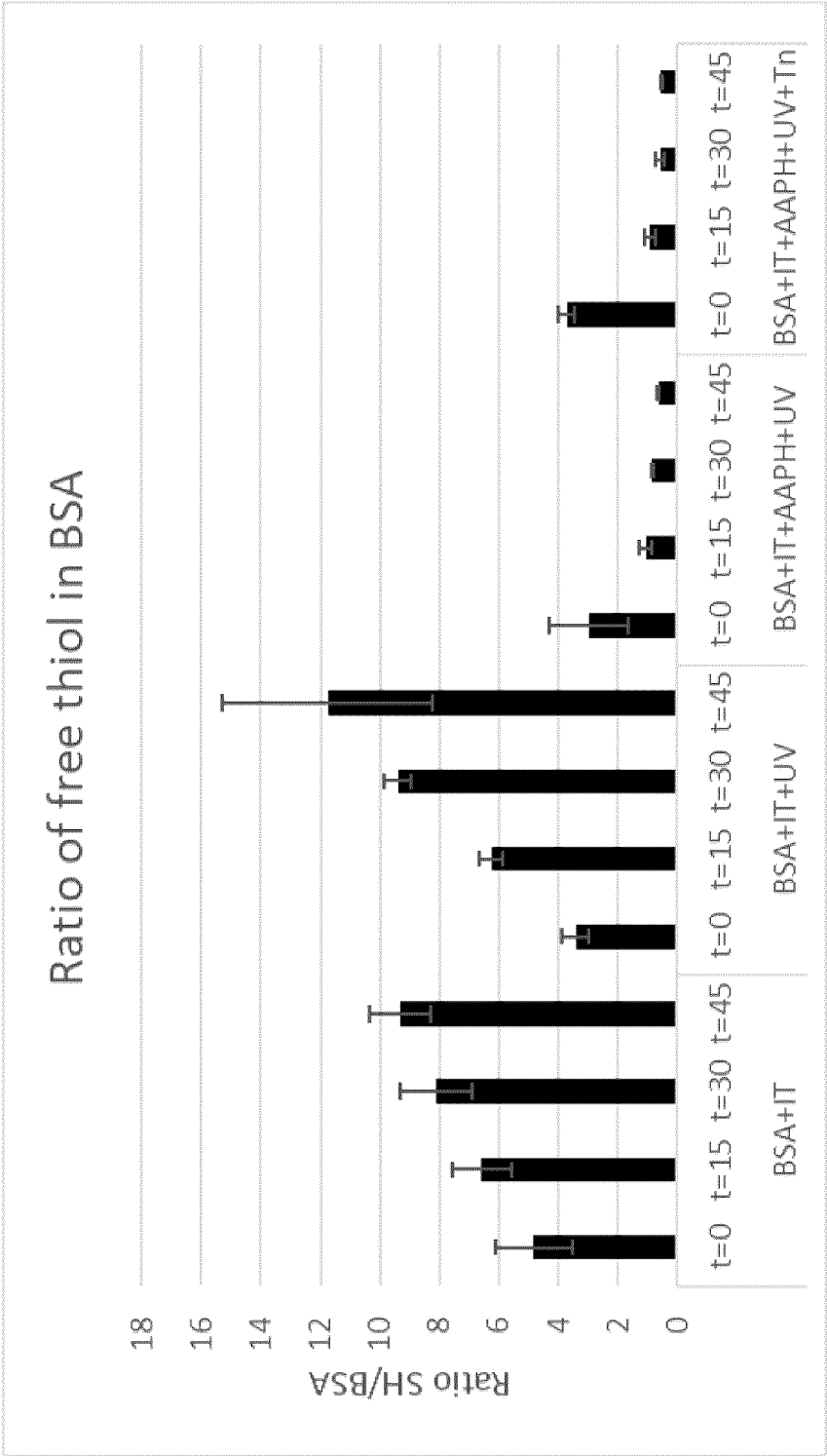


Fig. 30

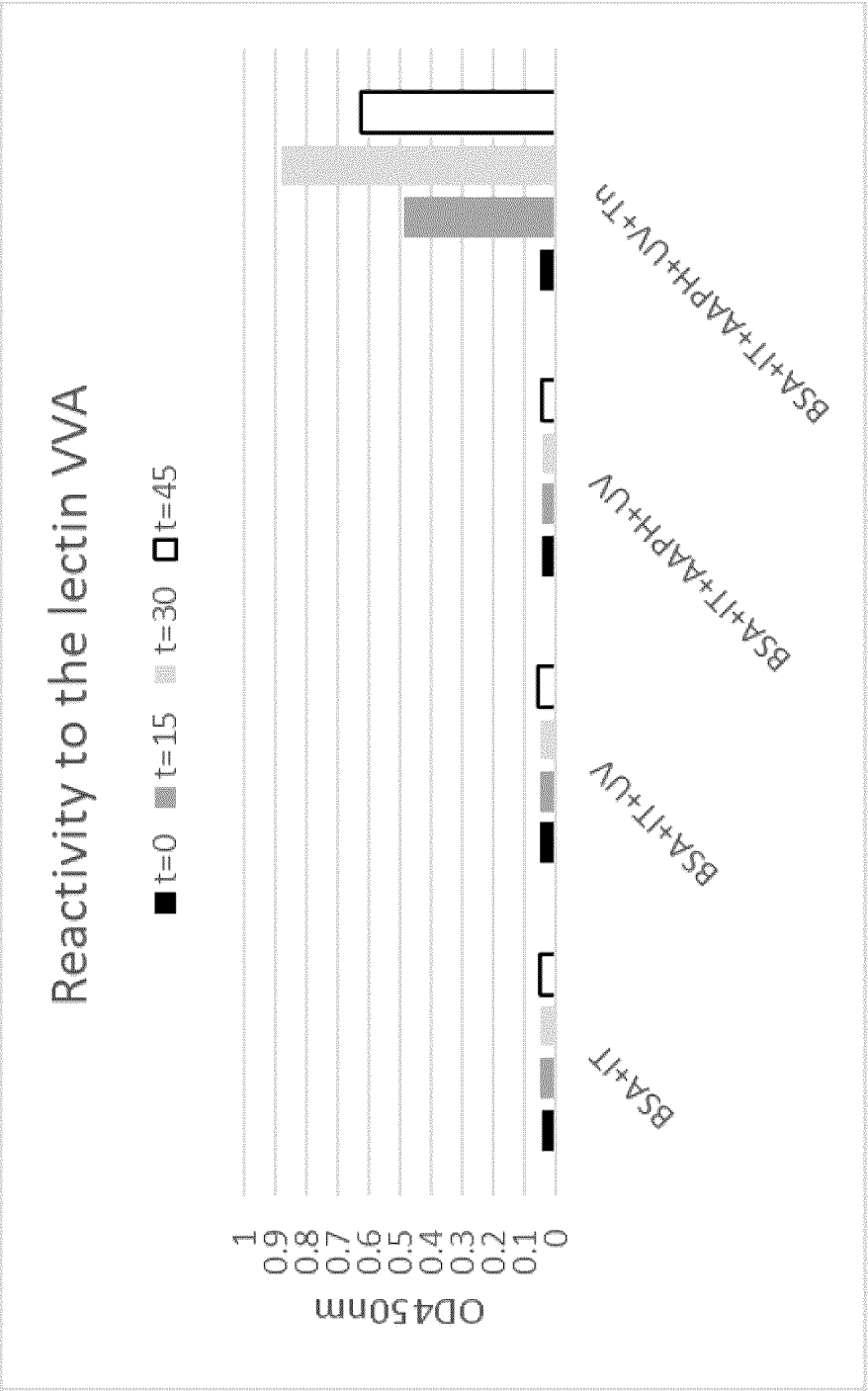


Fig. 31

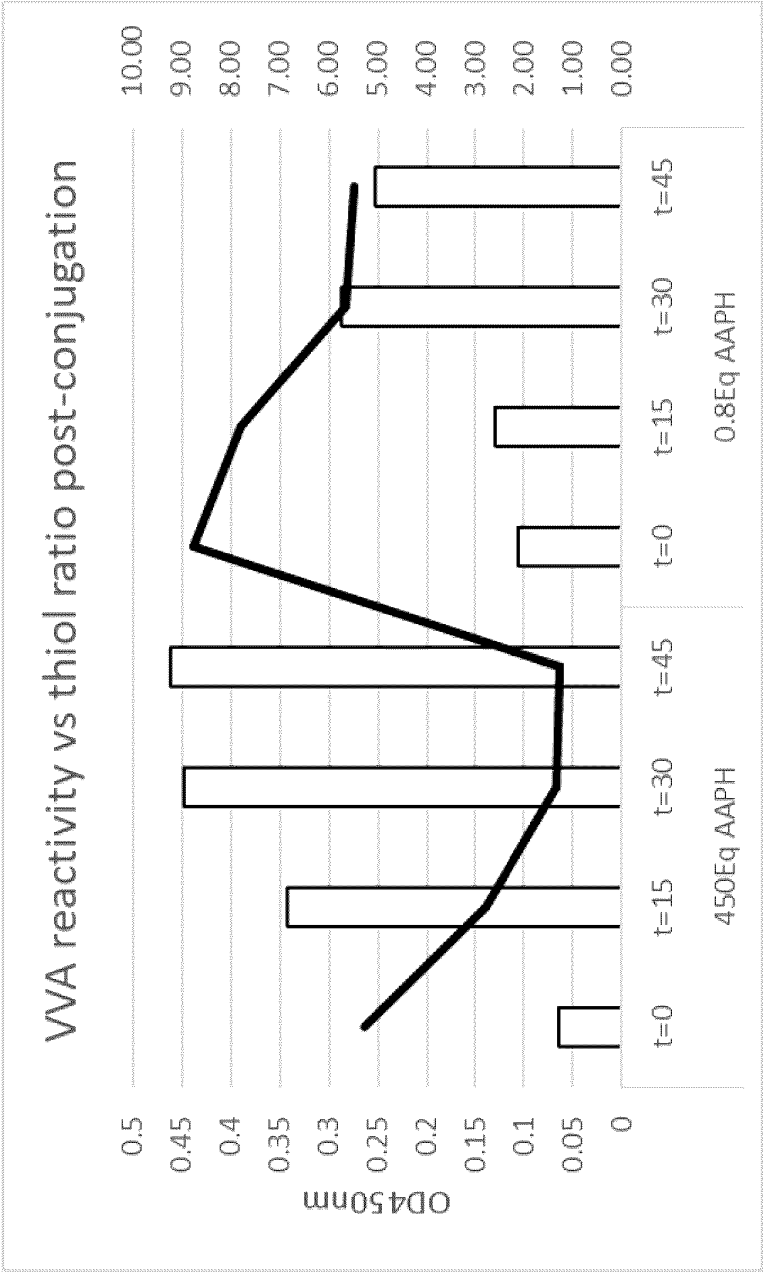


Fig. 32

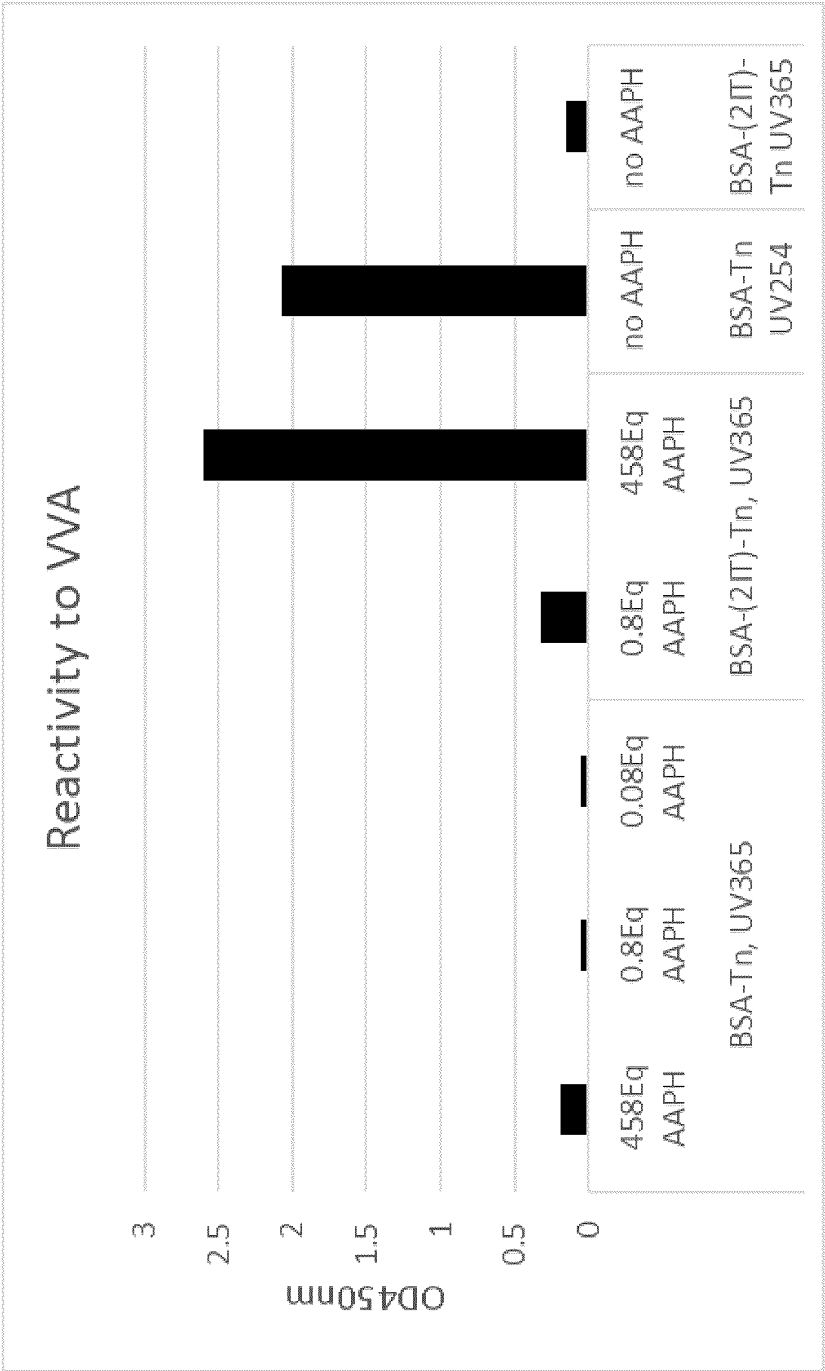
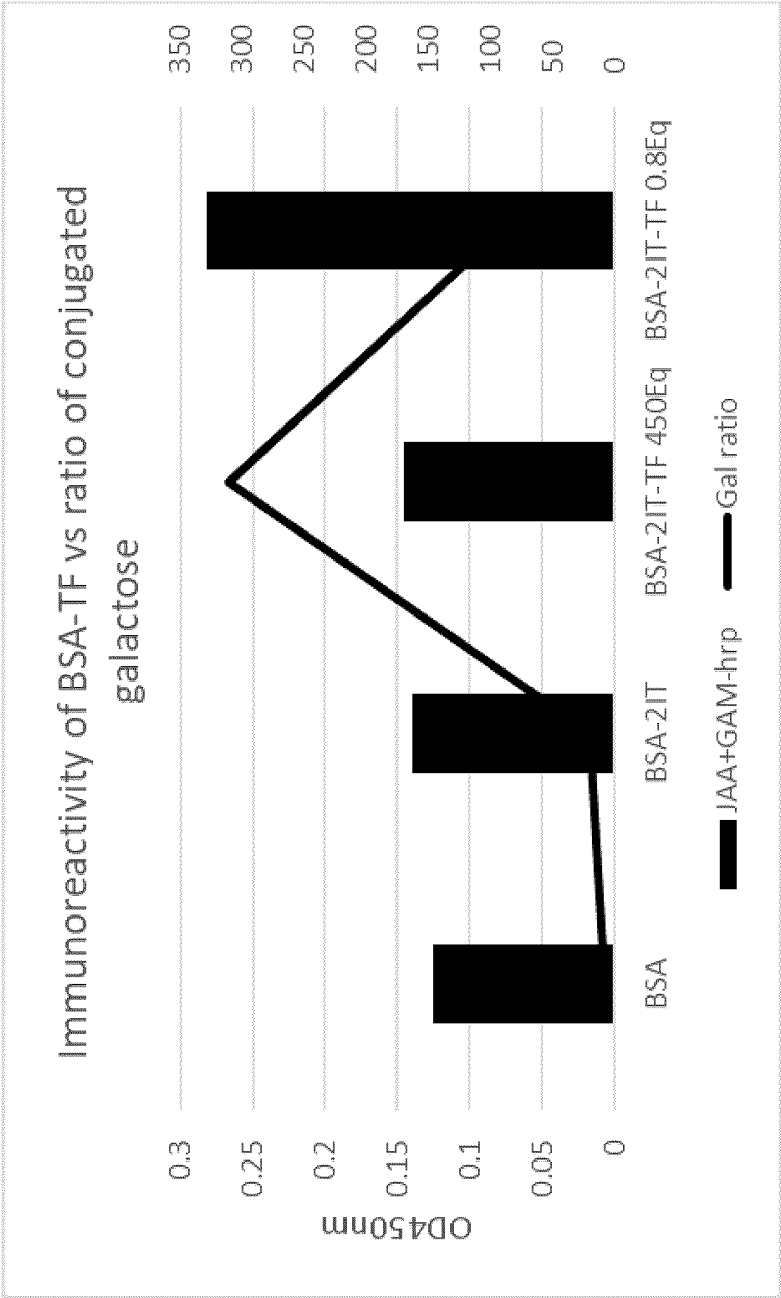
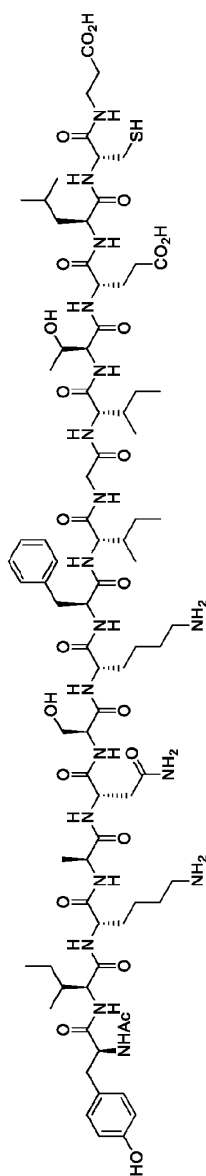


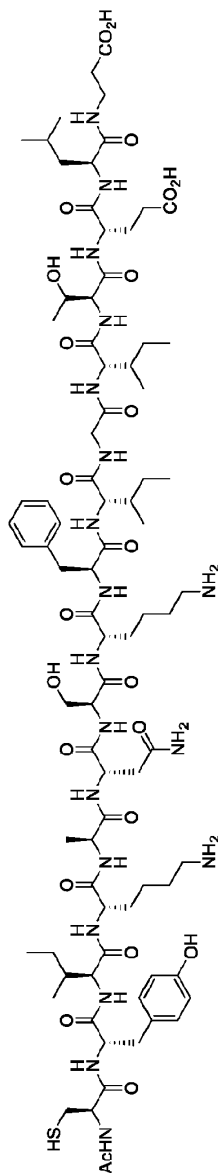
Fig. 33



dT831-844-Cys-βAla



Cys-dTT831-844-βAla



Compound Table							
Compound Label	Data File	RT	Mass	Abund	Formula	Tgt Mass	Diff (ppm)
Cpd 1: C83 H133 N19 O24 S	Roy_Chichi_181019_STC-GV-III-023_LC_5-95-10_UV_10ul.d	5.32	1811.952	211331	C83 H133 N19 O24 S	1811.9492	1.59
Cpd 1: C83 H133 N19 O24 S	Roy_Chichi_181019_STC-GV-III-023_LC_5-95-10_UV_10ul.d	5.42	1811.9526	331559	C83 H133 N19 O24 S	1811.9492	1.88

Fig. 35

dTT831-844-Cys-βAla

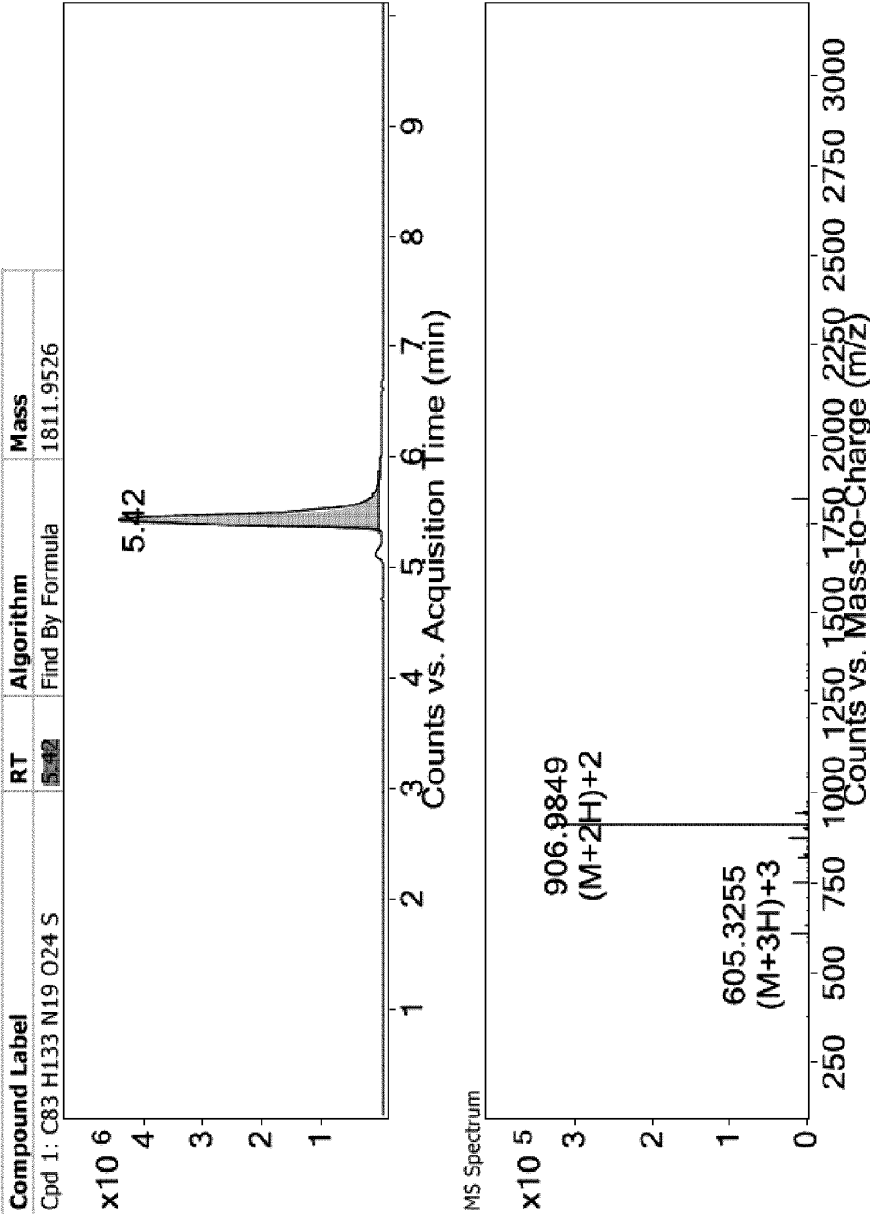


Fig. 36

Cys-dTT831-844-βAla

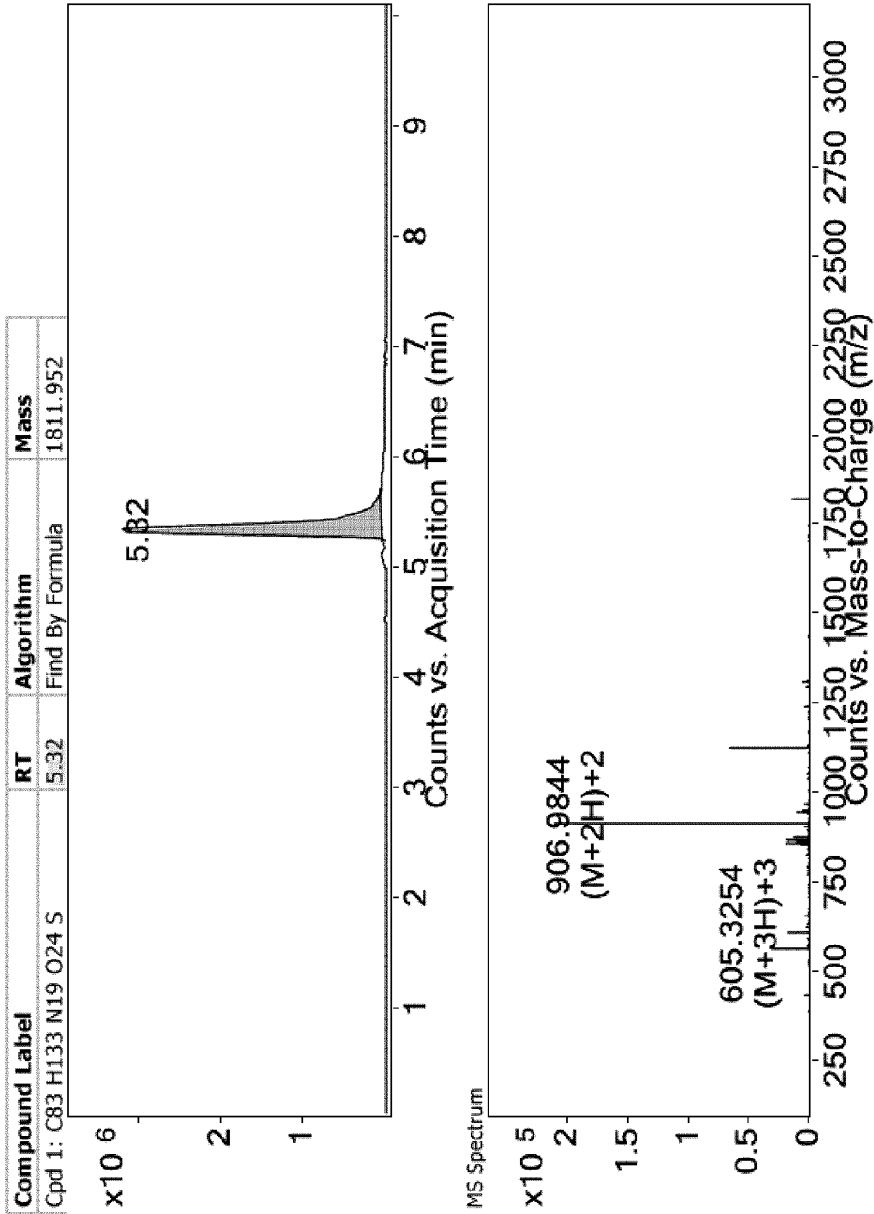
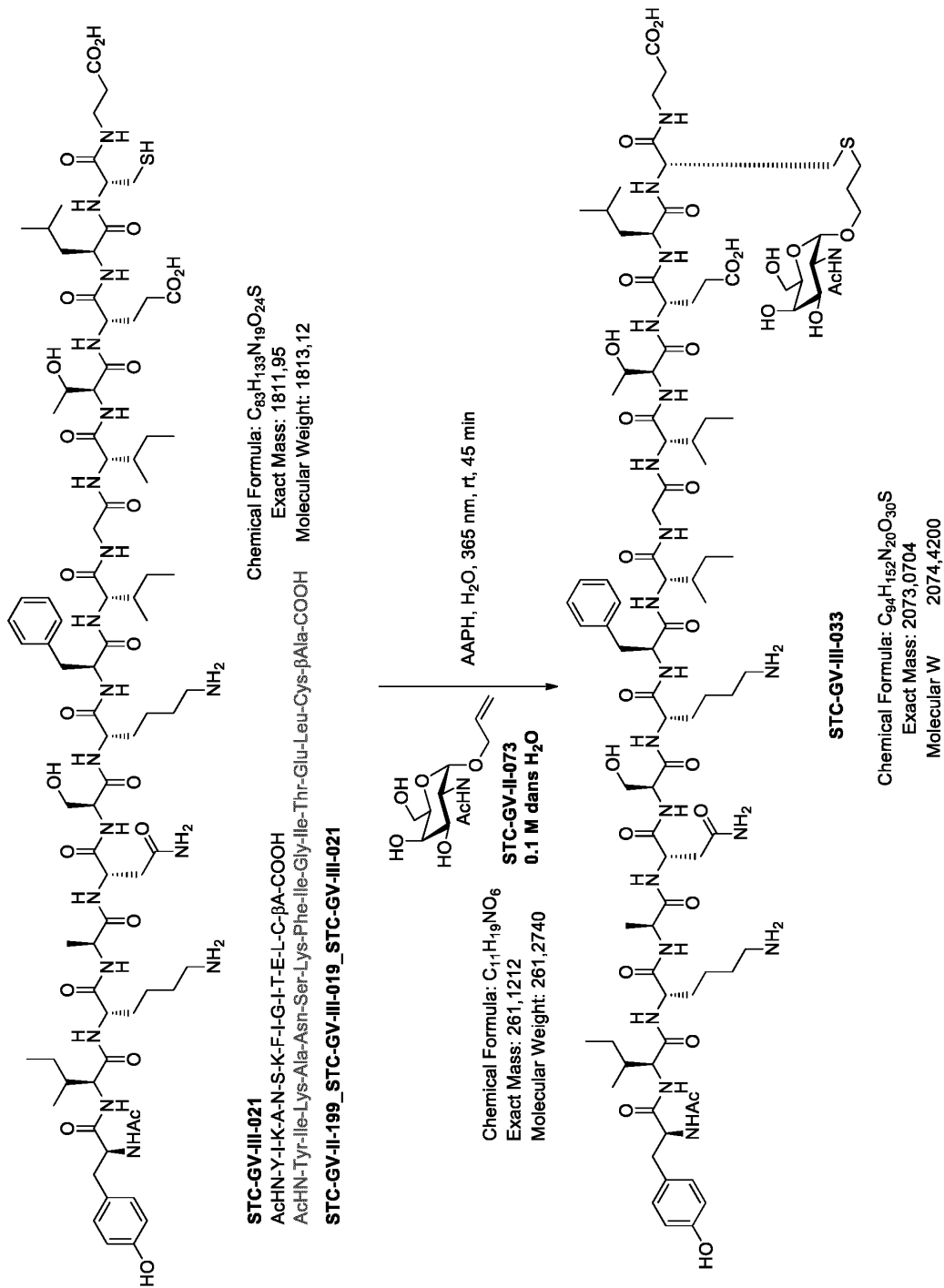


Fig. 37

dTT831-844-Cys-βAla-O-Tn



dtT831-844-Cys-βAla-O-Tn

Fig. 38

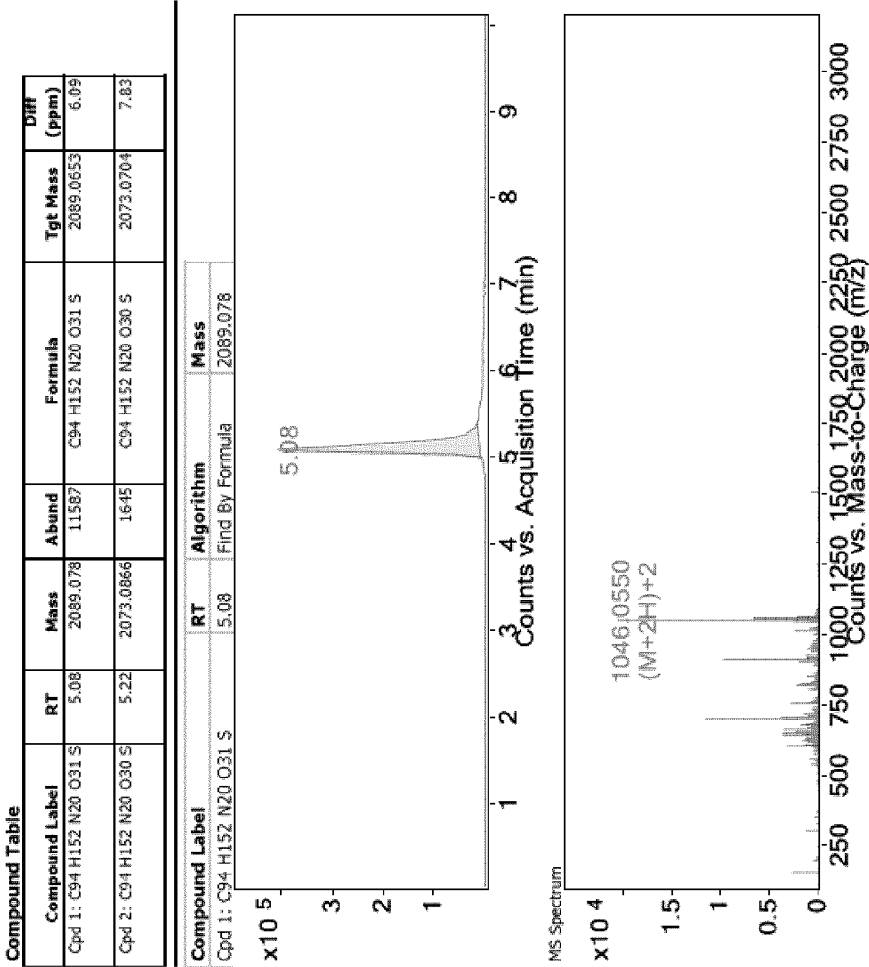


Fig. 39

O-Tn-Cys-dTT831-844-βAla

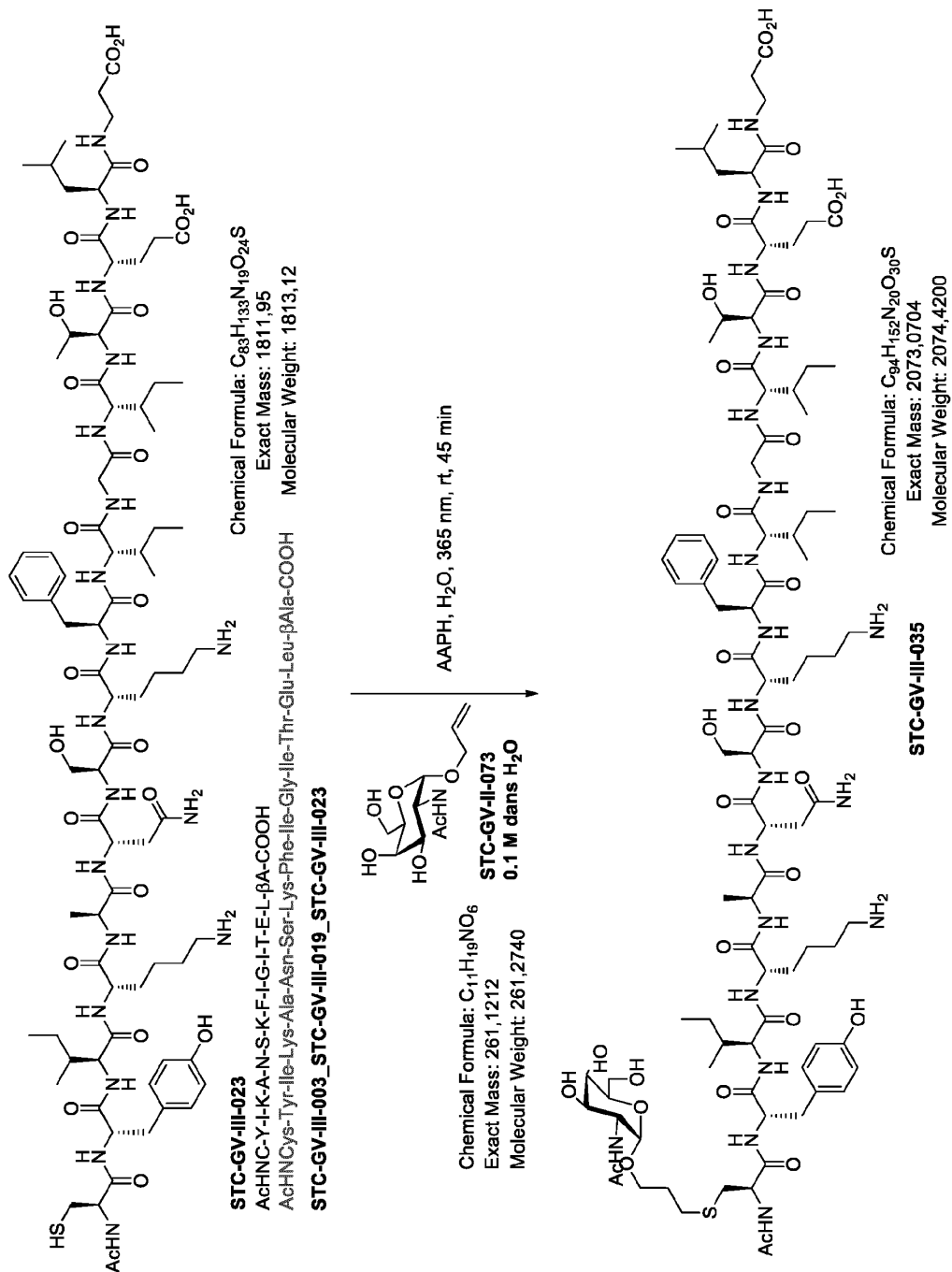


Fig. 40

O-Tn-Cys-dTT831-844-βAla

