

FIG. 1A

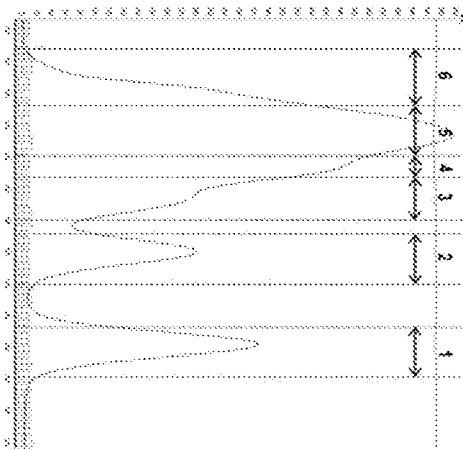


FIG. 1B

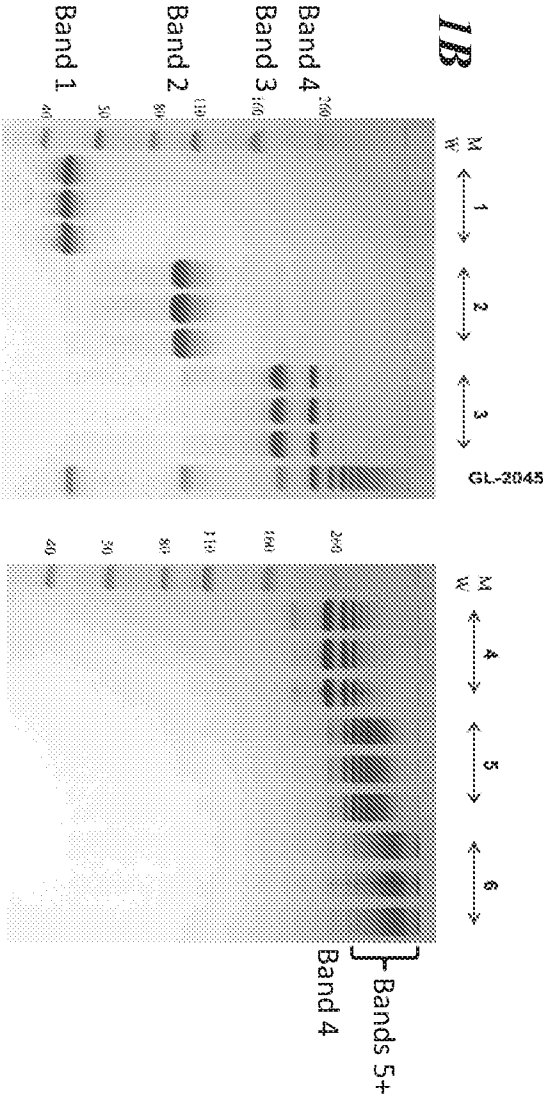


FIG. 2

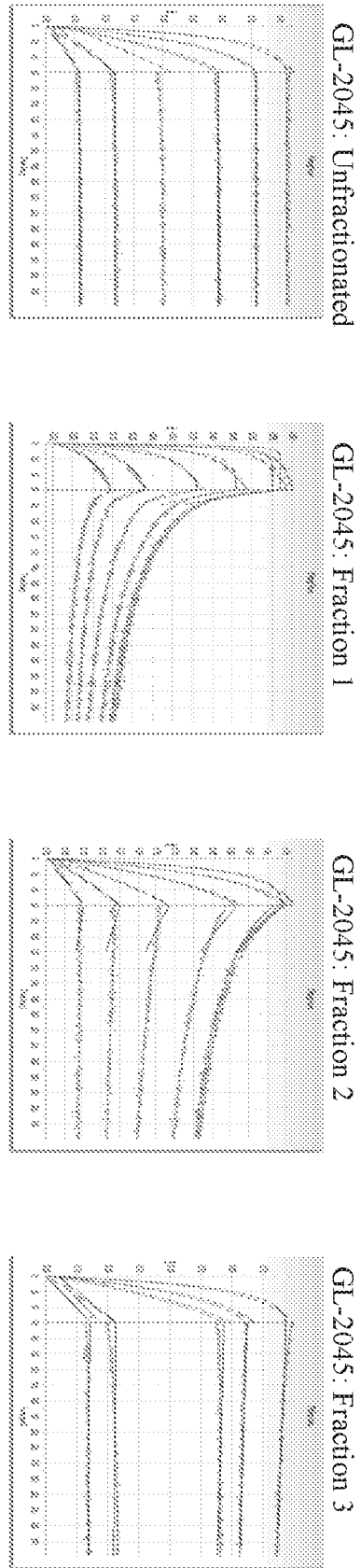
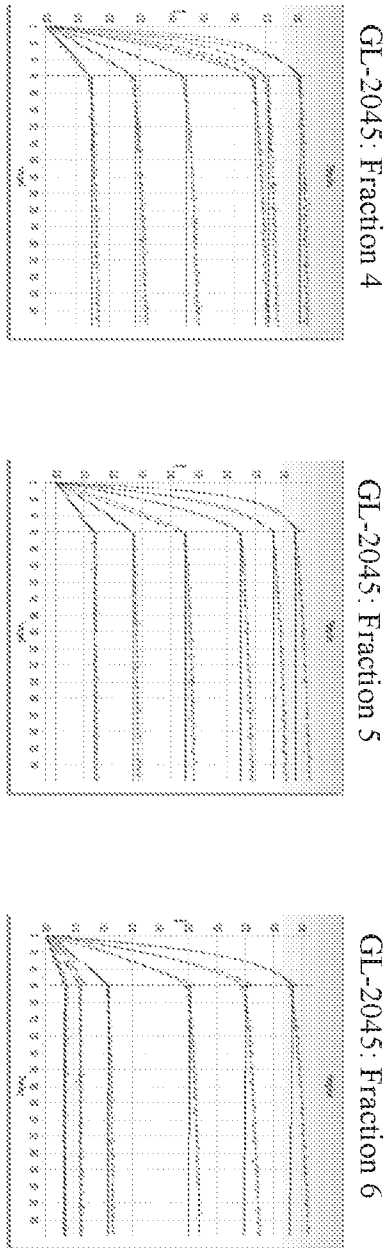


FIG. 3A

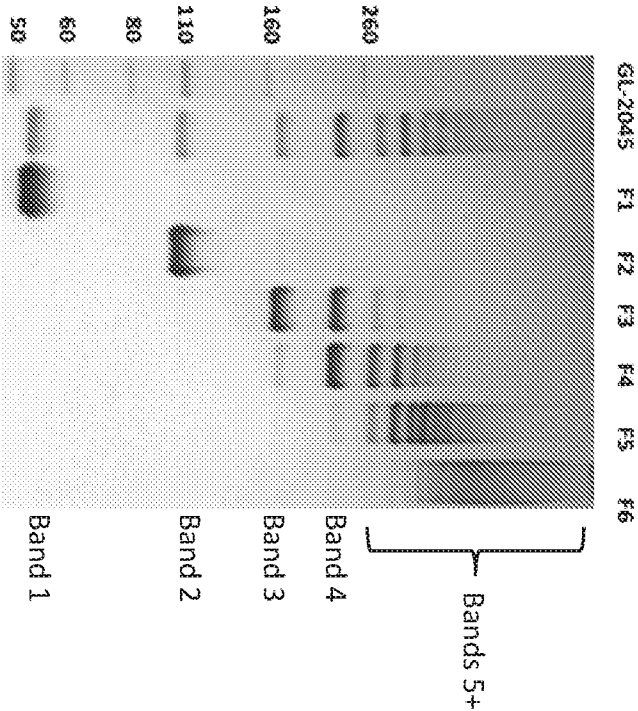


FIG. 3B

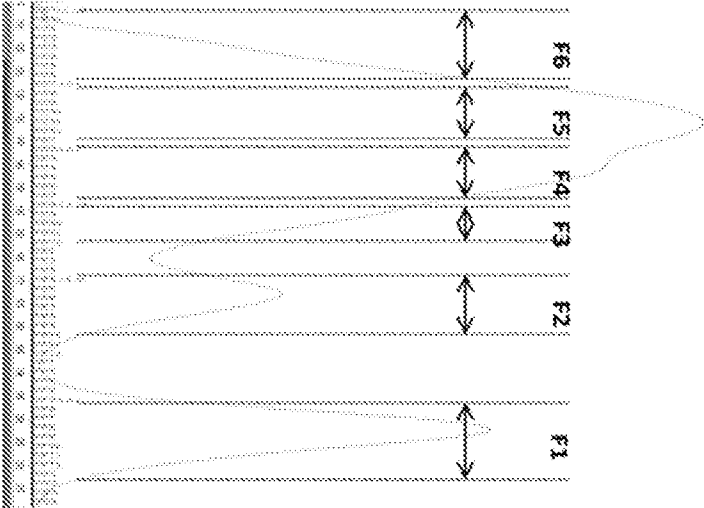


FIG. 4A

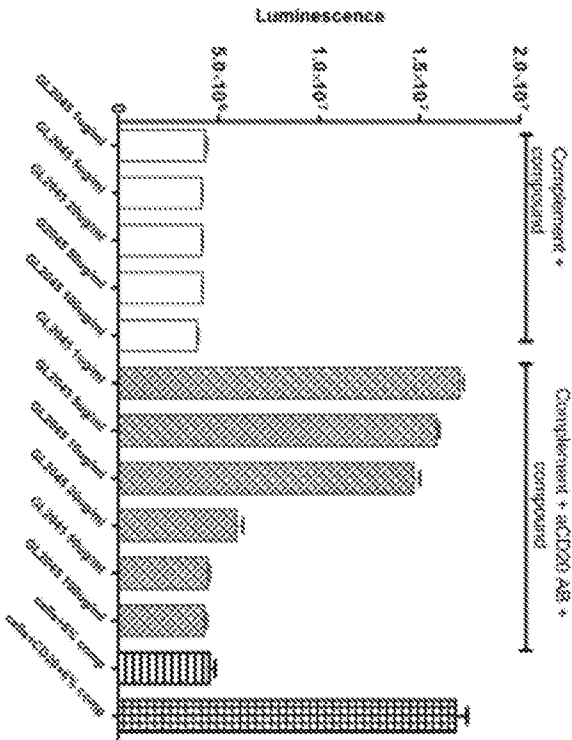


FIG. 4B

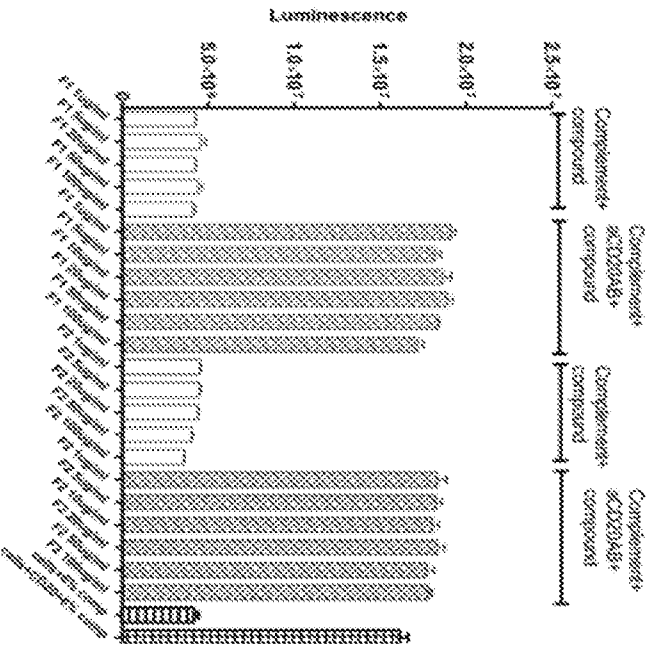
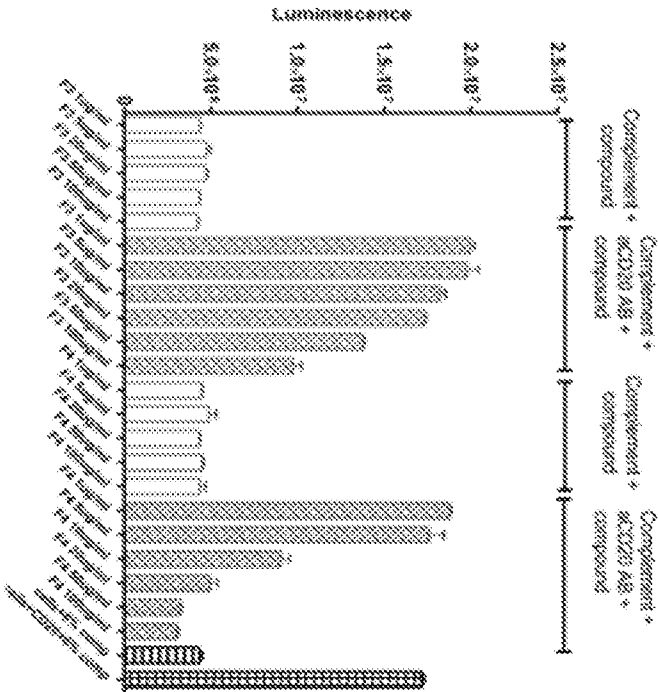


FIG. 4C



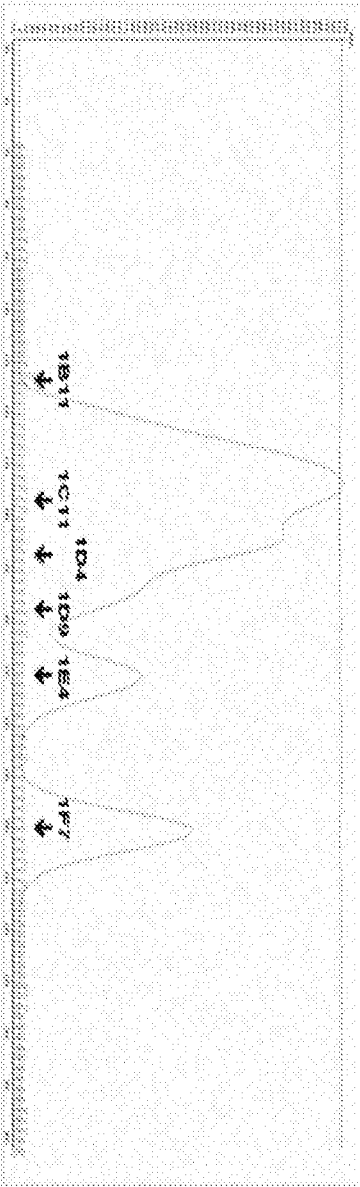
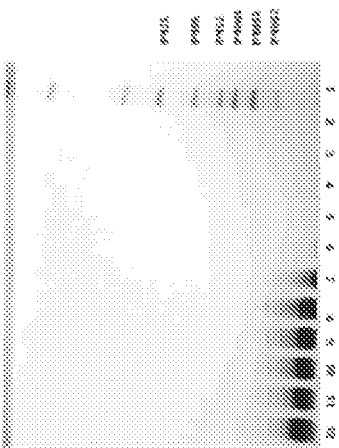
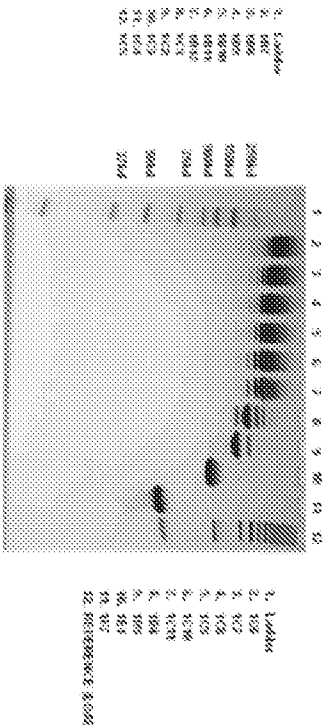


FIG. 6A

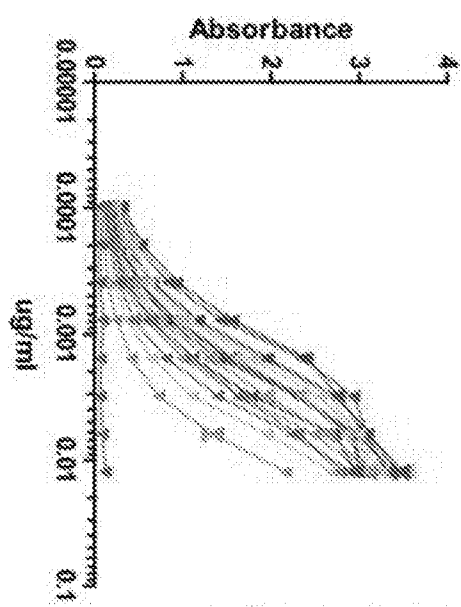


FIG. 6B

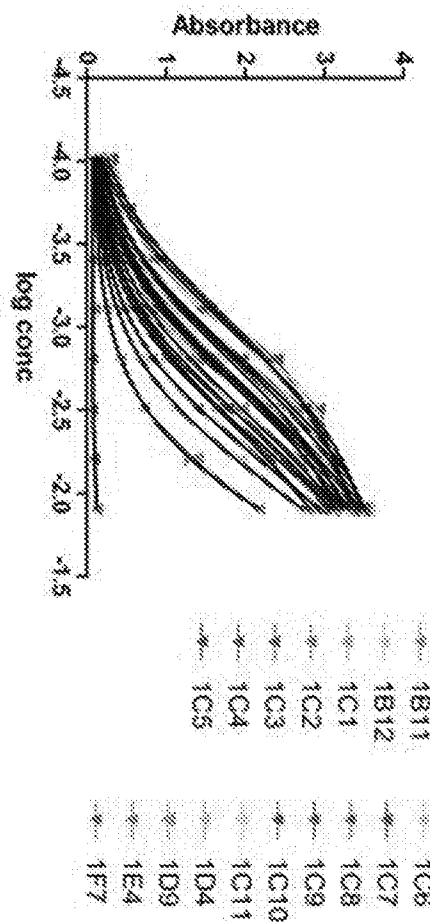


FIG. 7

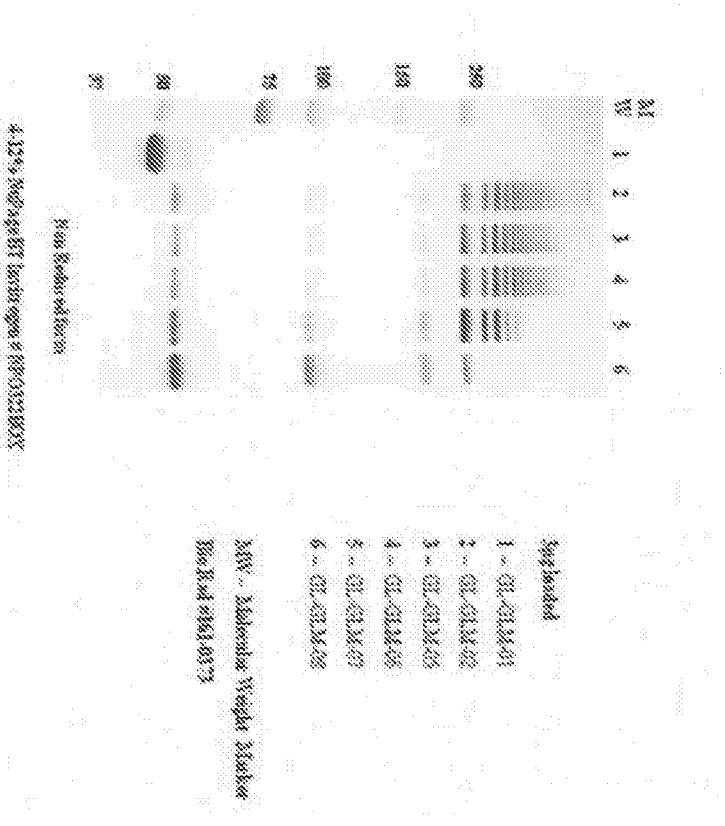
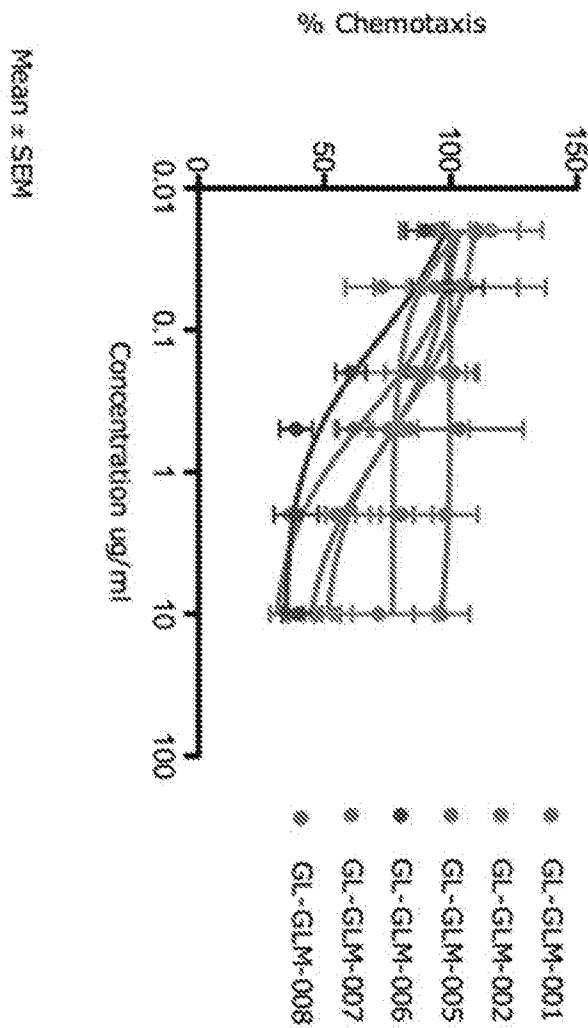


FIG. 8



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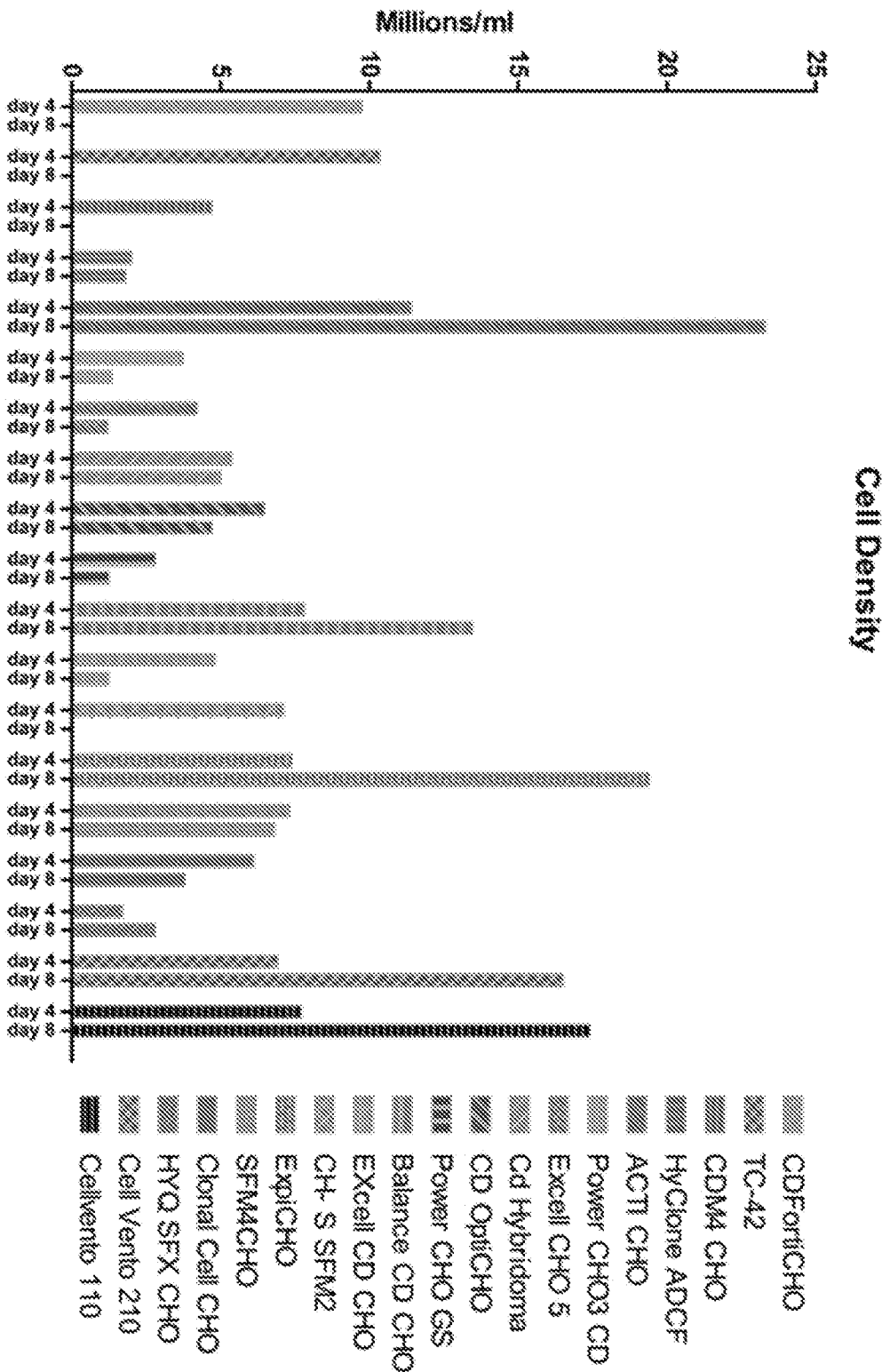


FIG. 9

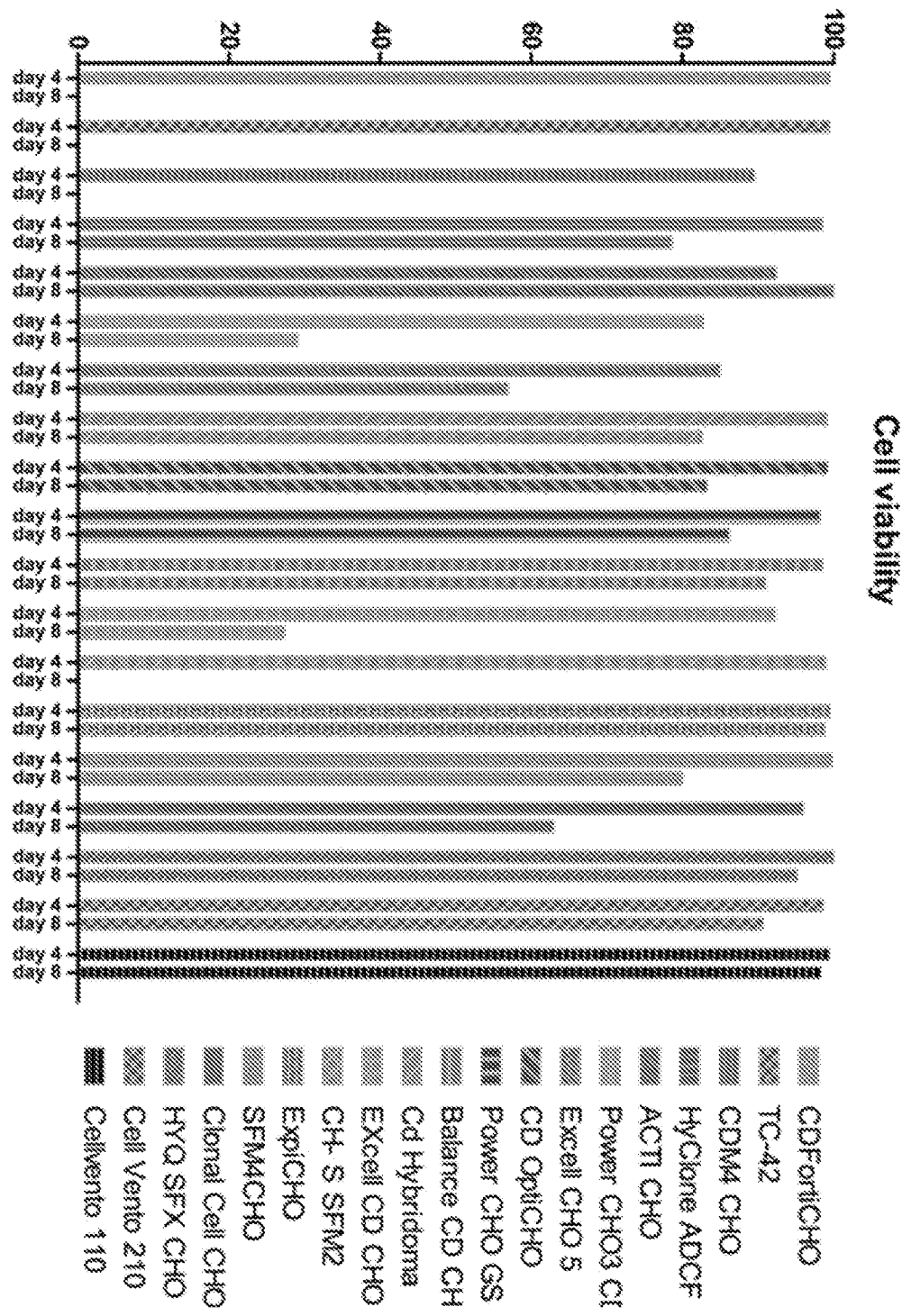


FIG. 10

FIG. 11

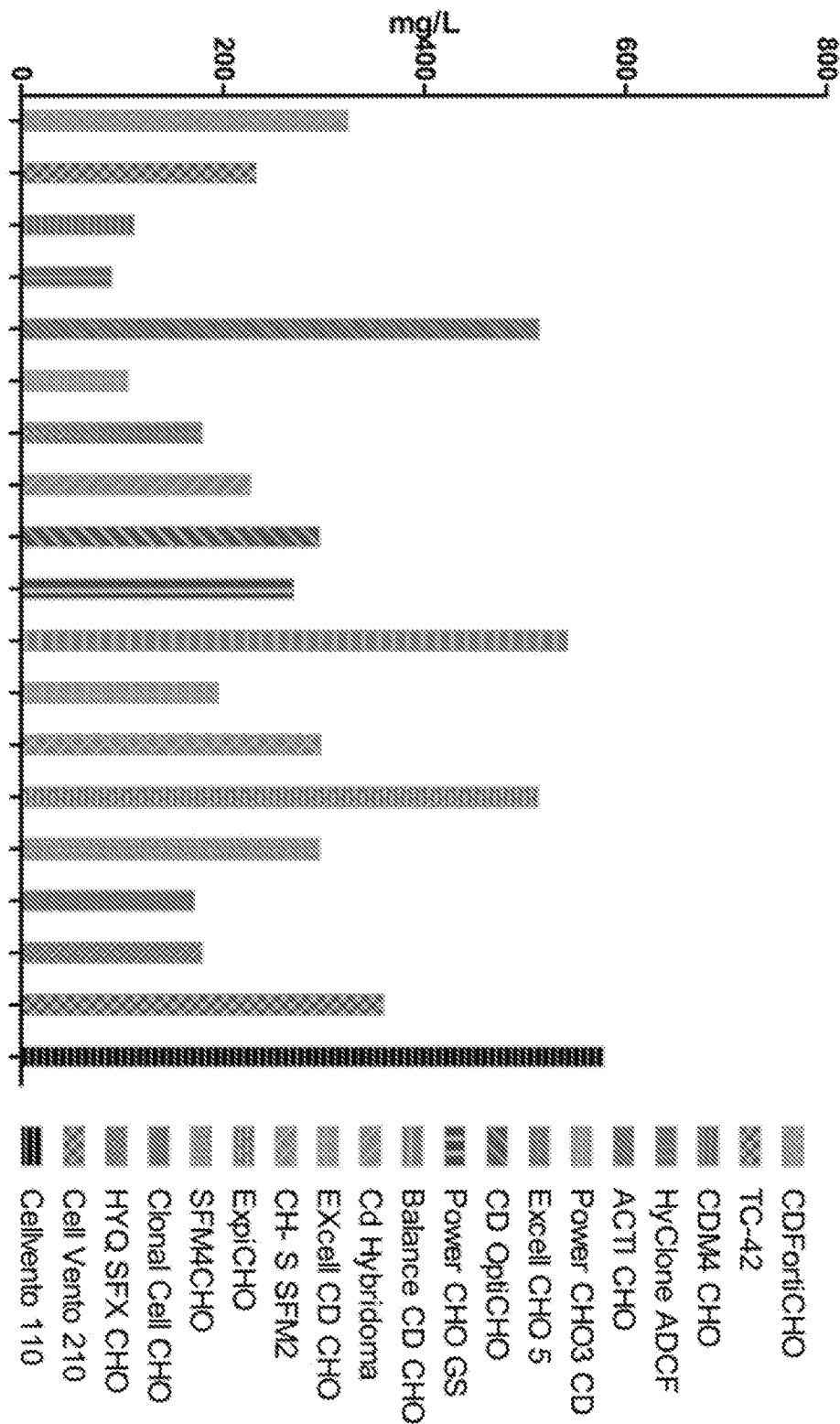
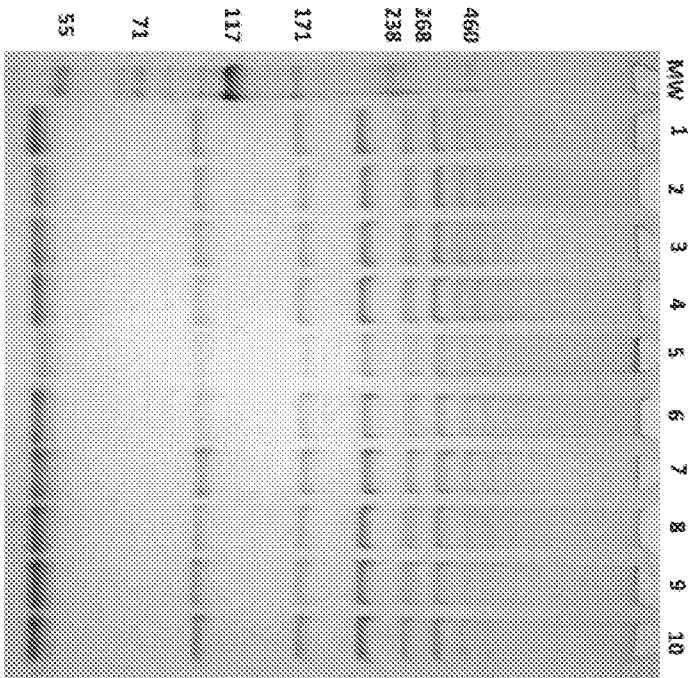
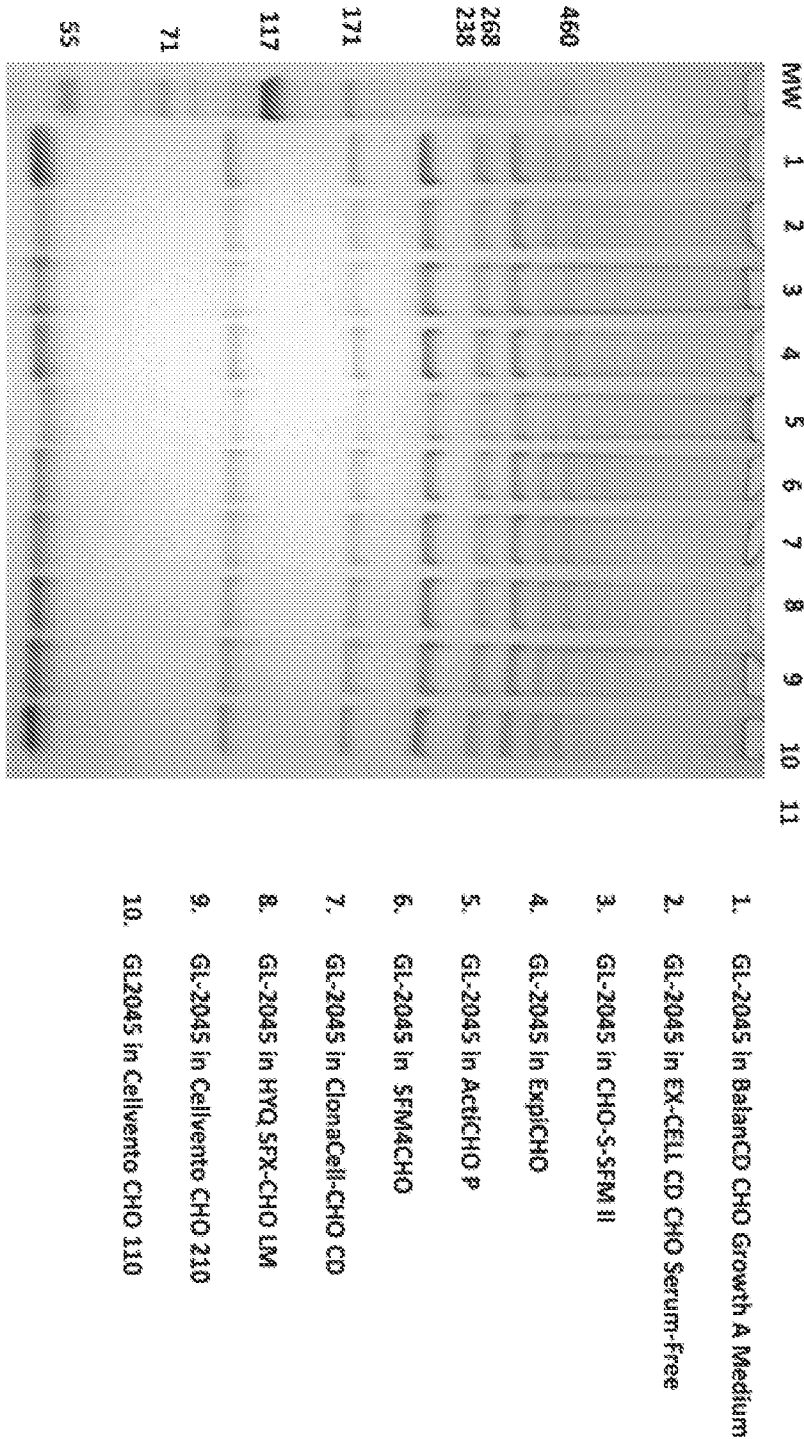


FIG. 12A



1. GL-2045 in CD FortiCHO
2. GL-2045 in TC-42 (CHOMACS CD)
3. GL-2045 in Hyclone CDMACHO
4. GL-2045 in Hyclone ADCF MAB
5. GL-2045 in ActiCHO P
6. GL-2045 in PowerCHO3 CD
7. GL-2045 in Ex-Cell CHO5
8. GL-2045 in CD Hybridoma
9. GL-2045 in CD OptiCHO
10. GL-2045 in PowerCHO-GS

FIG. 12B



ADCC-Mab HyClone		Addition order														
Culture day		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
HyClone Cell Boost	%				5			5			5			5		
4 (PS307)	ml			1	6.0162			6.3003			6.6135			6.9336		

media	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
AceticO P															
Culture day															
Power Feed %	1			4	4	4	4	4	4	4	4	4			
A	ml			4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2			
Power Feed %	2			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4			
B	ml			0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48			
Glucose	3														

Monitor daily and bring the glucose level at 4g/L when below 2g/L.

FIG. 13B

Cellvento																		
CHO-210																		
		Addition		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Culture day	order																	
Cellvento™ feed-210	%	1		6		6		6		6		6		6		6		6
	mg			7.260		7.260		9.080		9.075		9.090		9.090		9.635		
Monitor daily and maintain at 4 ~ 6 g/L																		
Glucose	%	2		0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2
Cysteine/Tyrosine	mg	3		0.214		0.255		0.255		0.256		0.256		0.256		0.257		
BalanceCD CHO Growth A Medium																		
BalanceCD CHO Growth A Medium																		
		Addition		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Culture day	order																	
BalanceCD Feed 1	%	1				15%												
	mg					28												
CD FortiCHO Life Technologies																		
		Addition		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Culture day	order																	
CD Effluent Feed C	%	1		5		5		5		5		5		5		5		5
AGI	mg			6.000		6.000		6.000		6.015		6.016						
CD4MCHO Hyeline																		
		Addition		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Culture day	order																	
Hyelone Cell Boost 4 (PSS07)	%	1		5		5		5		5		5		5		5		5
	mg			6.000		6.000		6.000		6.015		6.015		6.015		6.046		

FIG. 14

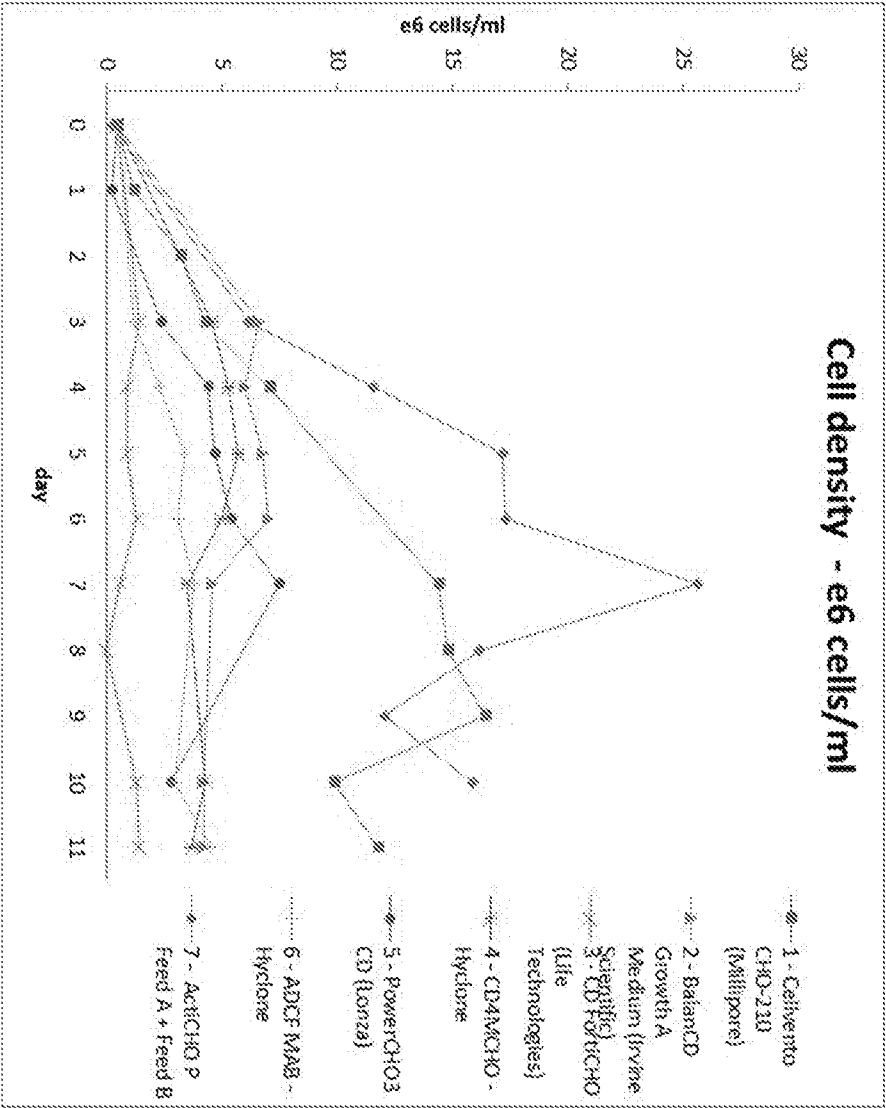


FIG. 15

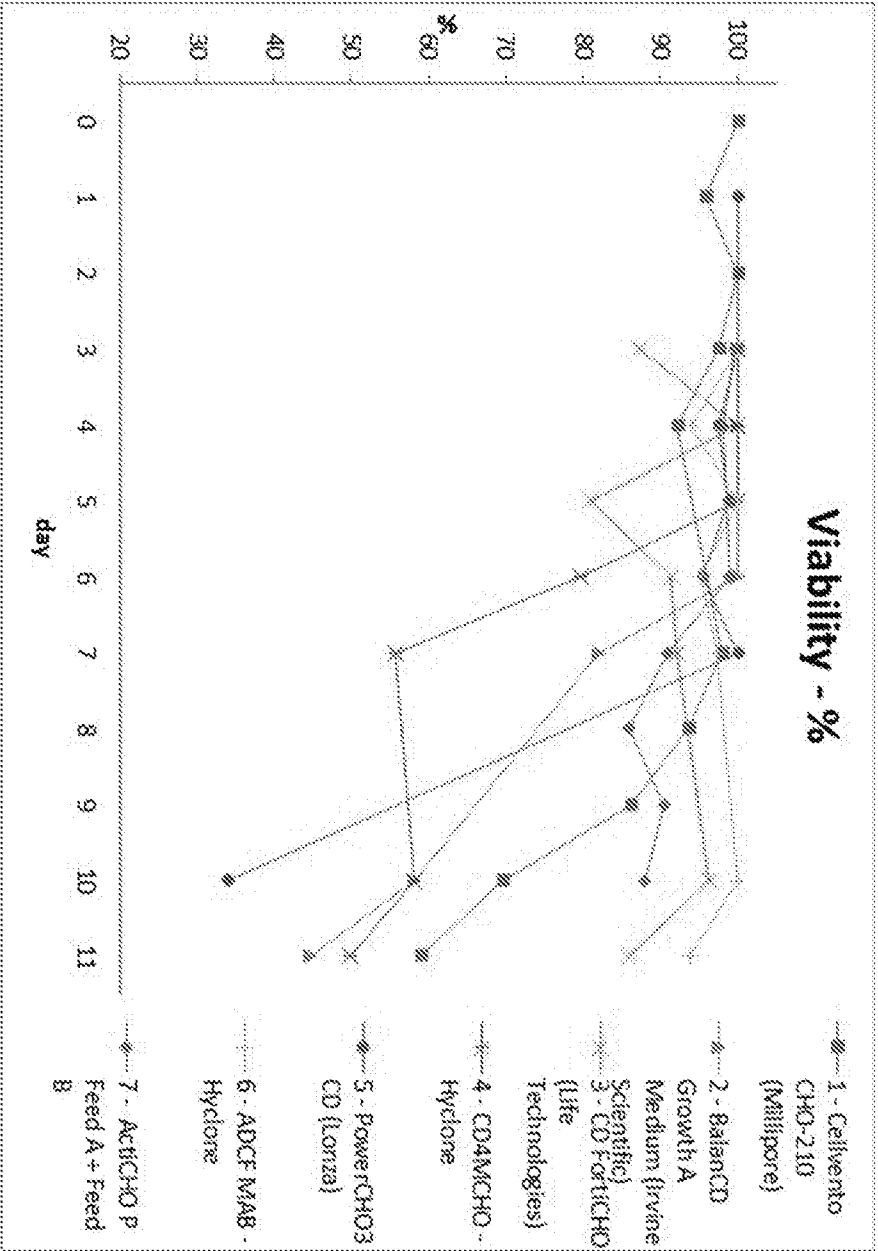


FIG. 16

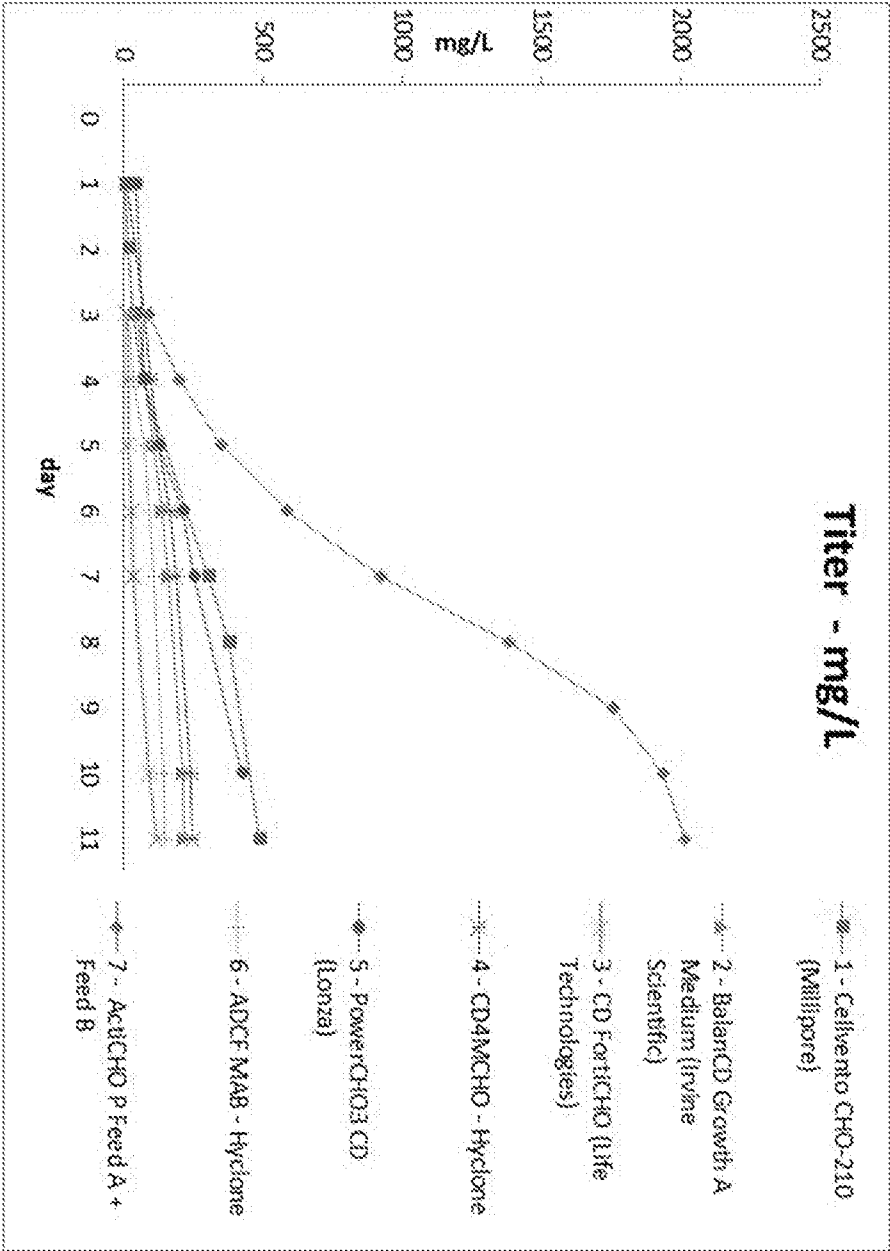
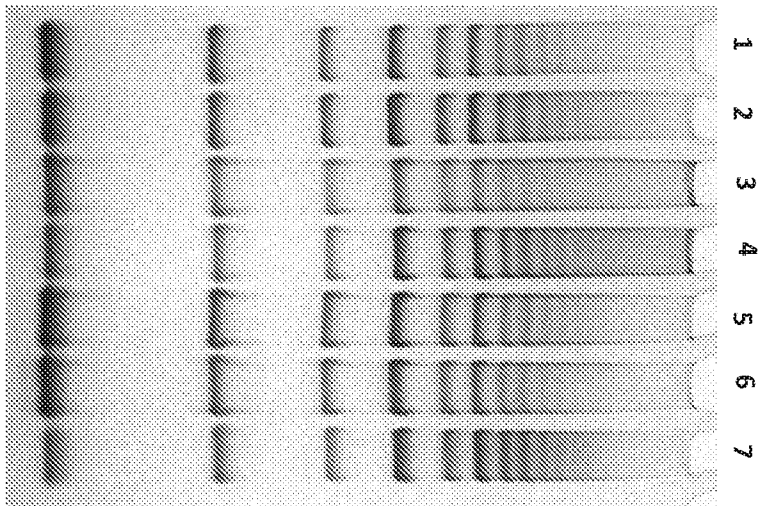


FIG. 17



- 1 - ADCF Mab-Hyclone + Cell Boost 4
- 2 - PowerCHO3 CD + PowerFeed A
- 3 - CDM4CHO + Cell Boost 4
- 4 - CD FortiCHO Life Technologies + CD Efficient Feed C
- 5 - BalanCD CHO Growth A Medium Irvine + BalanCD Feed1
- 6 - Cell Vento CHO-210 + Cell Vento Feed-210
- 7 - ActiCHO P + Feed A and Feed B

FIG. 18A

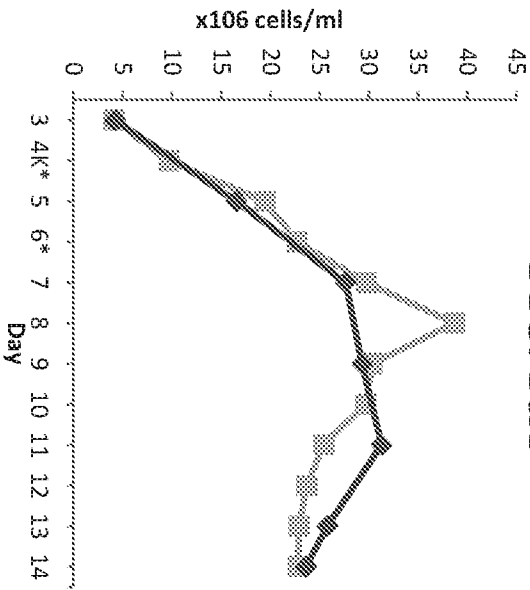


FIG. 18B

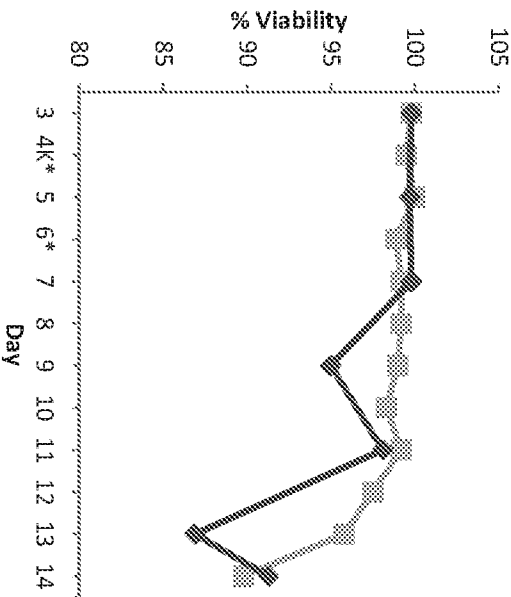


FIG. 18C

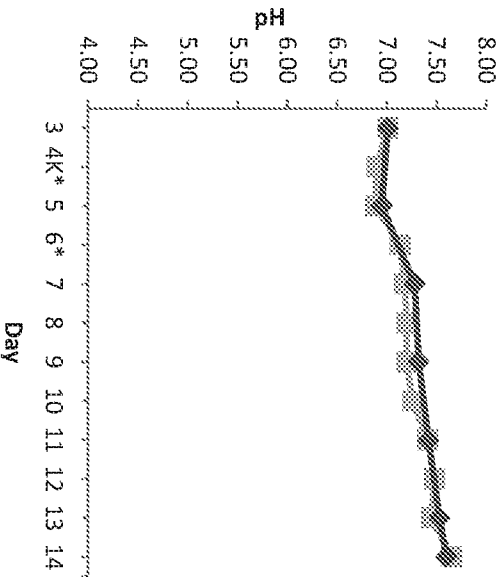
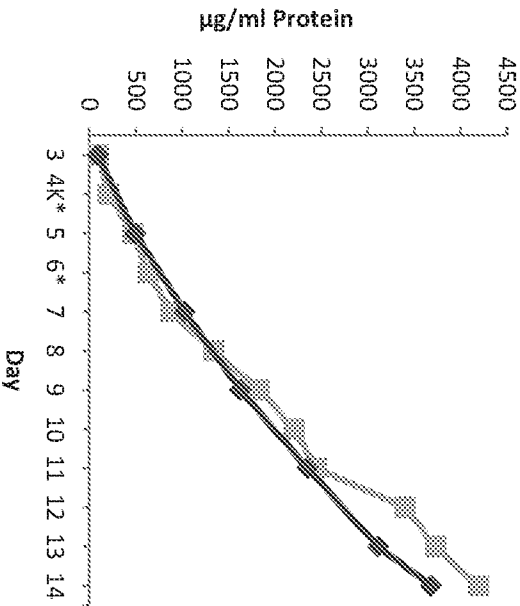


FIG. 18D



120 mL AcHCHO P
(Daily 4.8 mL A +
0.480 mL B)

120 mL AcHCHO P
(Every other day
4.8 mL A + 0.480 mL B)

FIG. 19

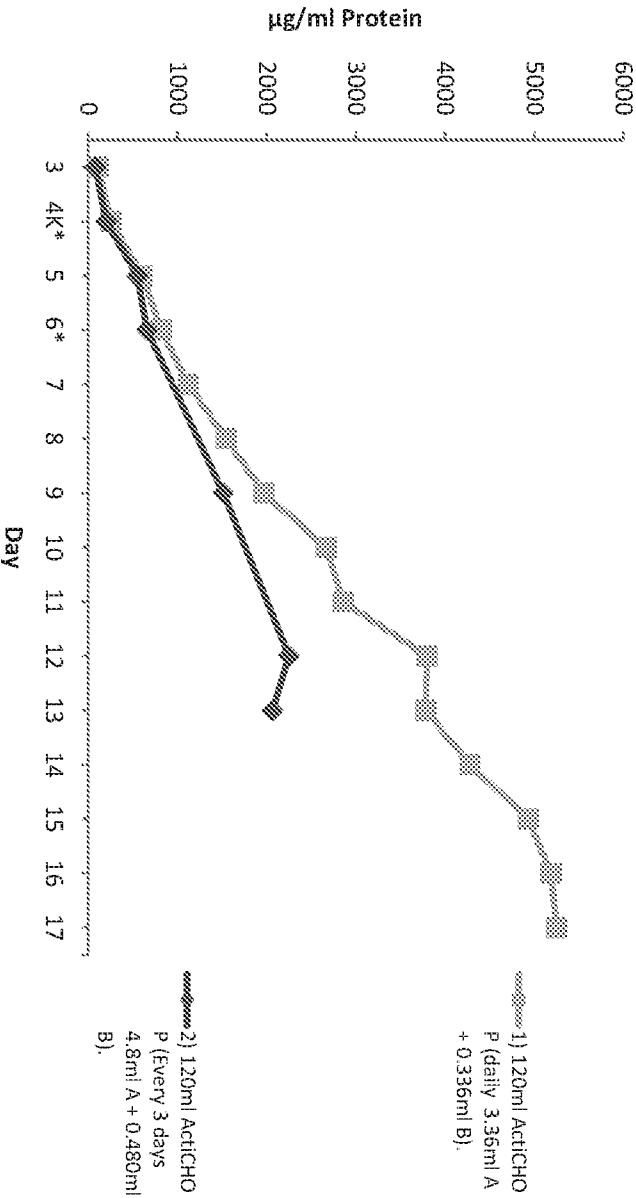


FIG. 20A

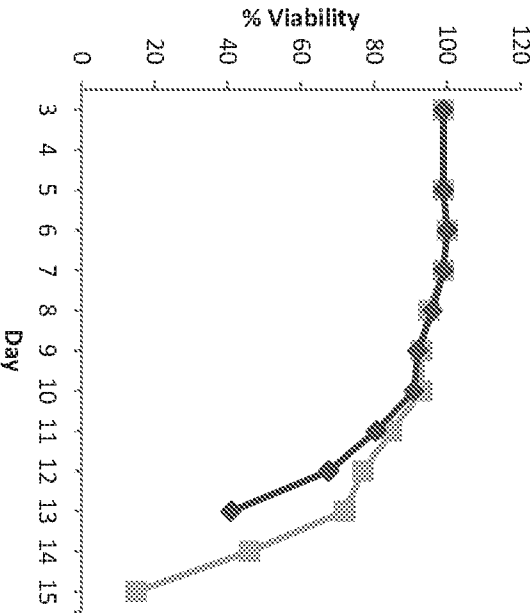


FIG. 20B

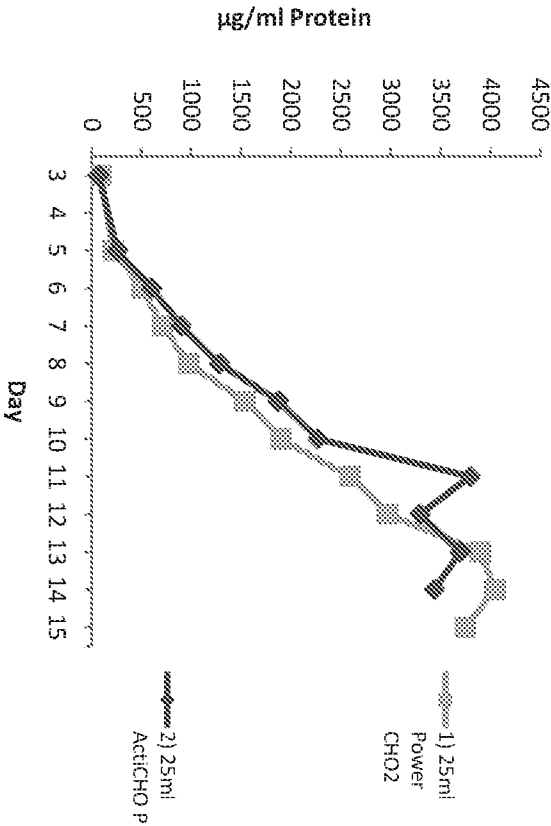


FIG. 21A

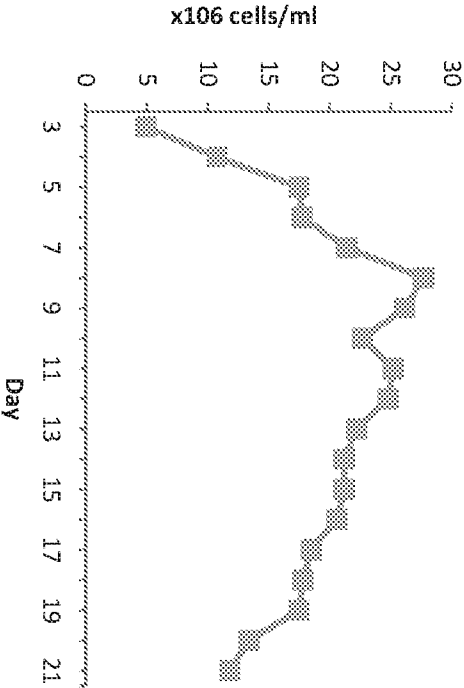


FIG. 21B

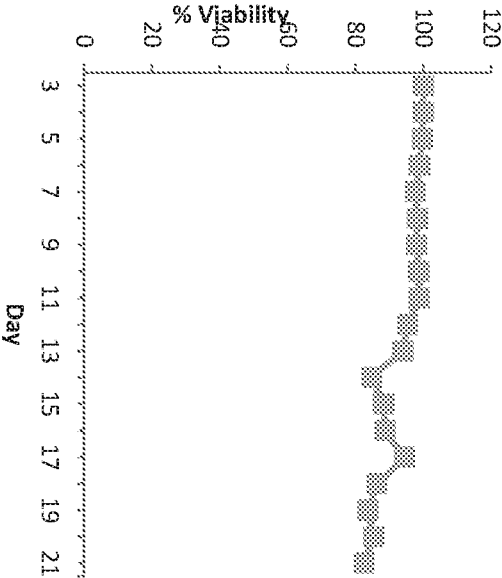
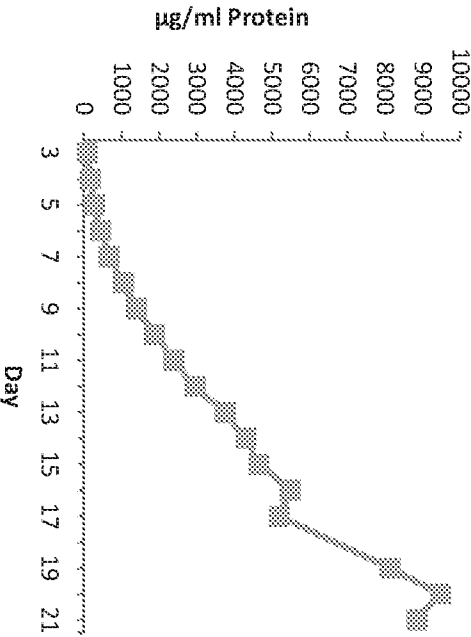


FIG. 21C



120 mL ActiCHO P
(Daily feed w/ 4.8 mL A + 0.48mL B;
transfer at 32.5° C)

FIG. 22

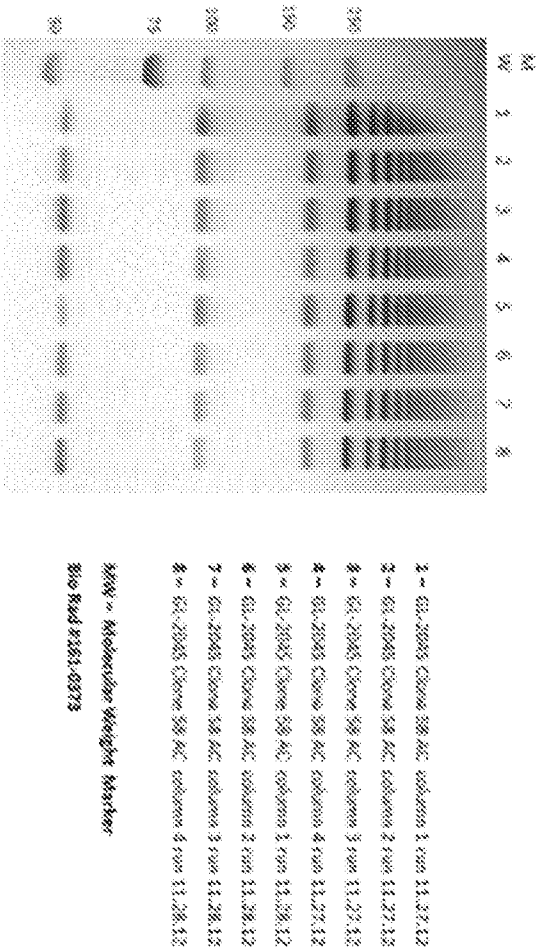


FIG. 23A

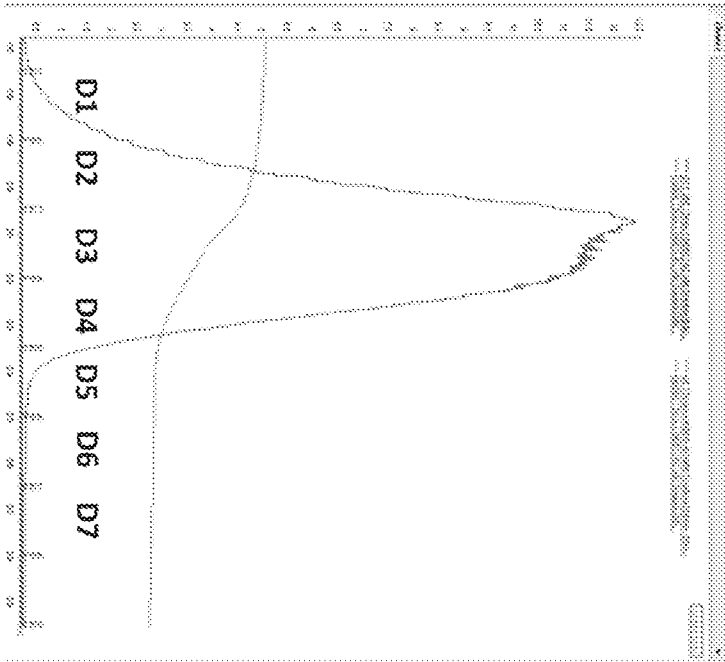


FIG. 23B

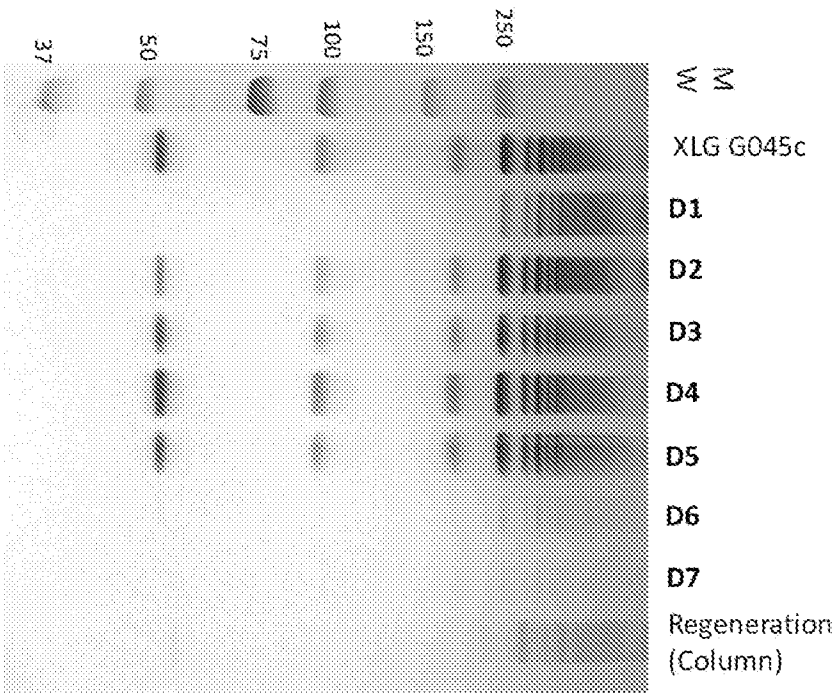


FIG. 24

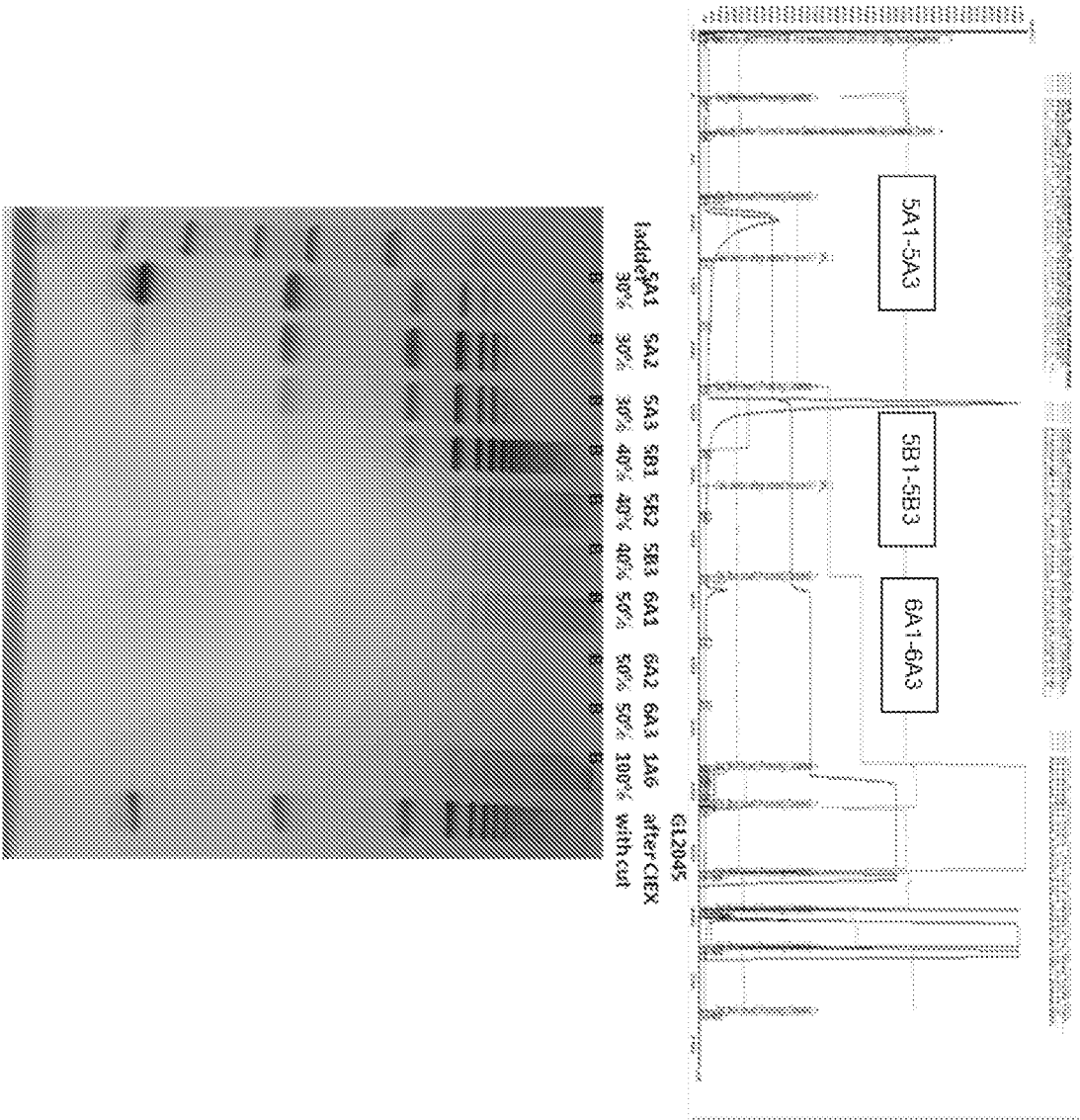


FIG. 25

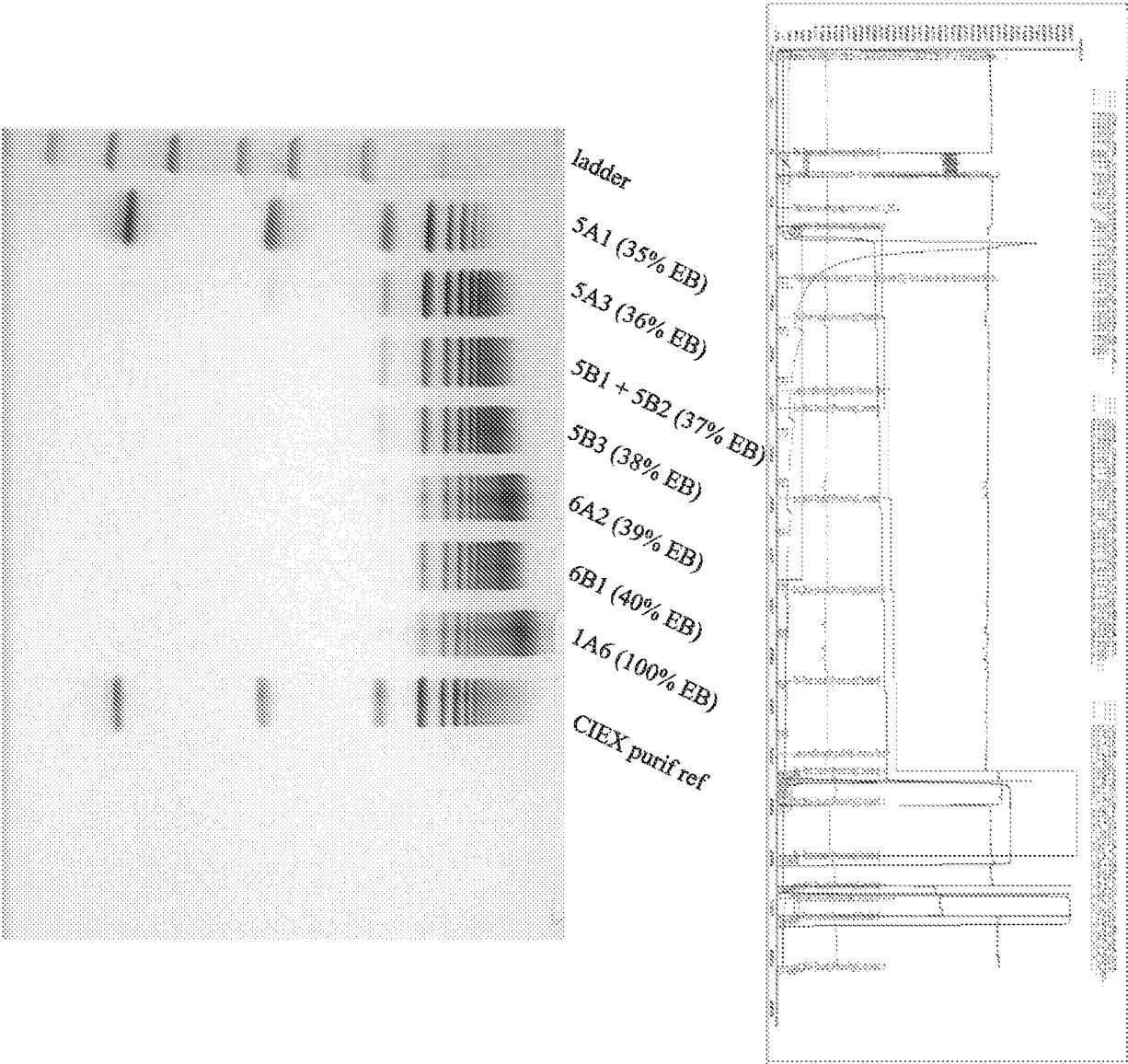


FIG. 26

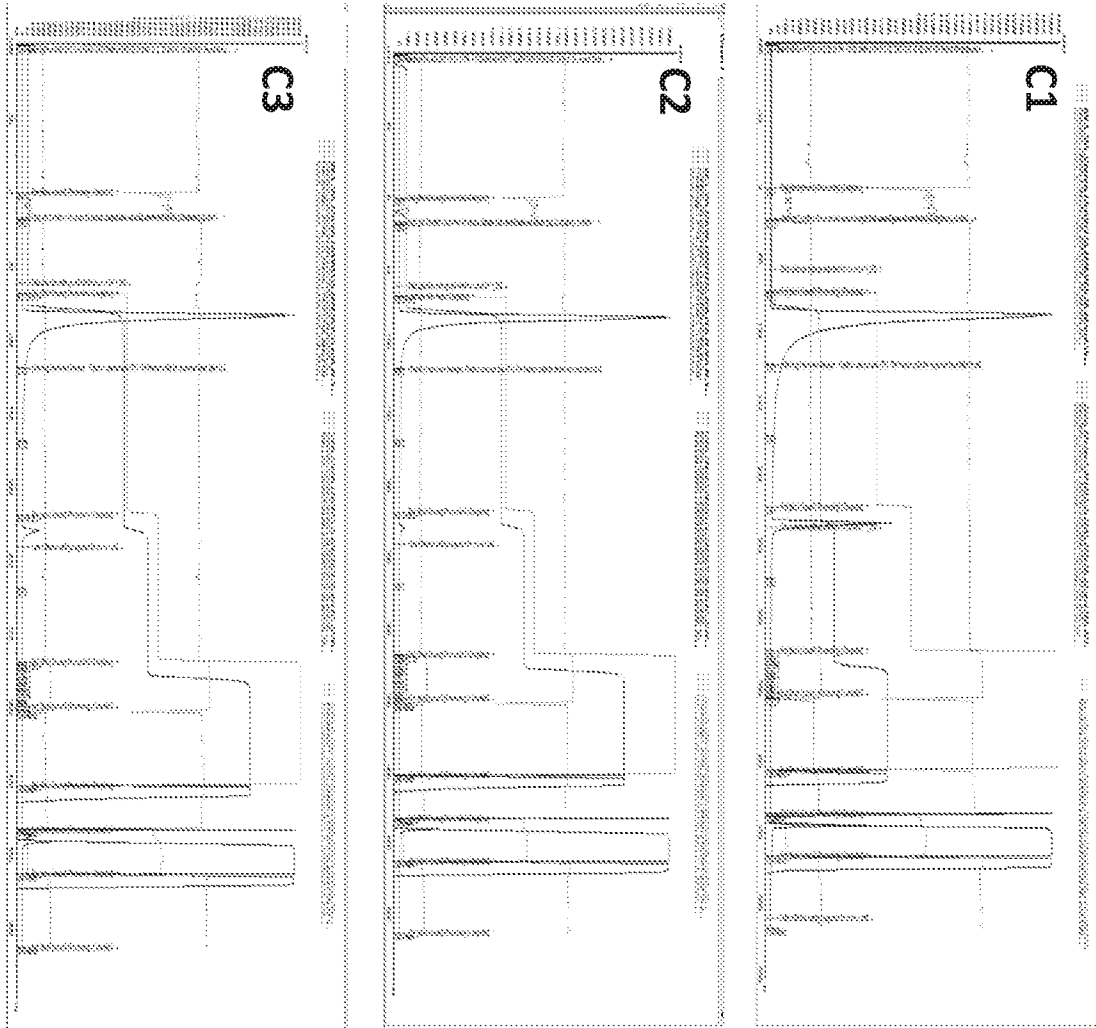
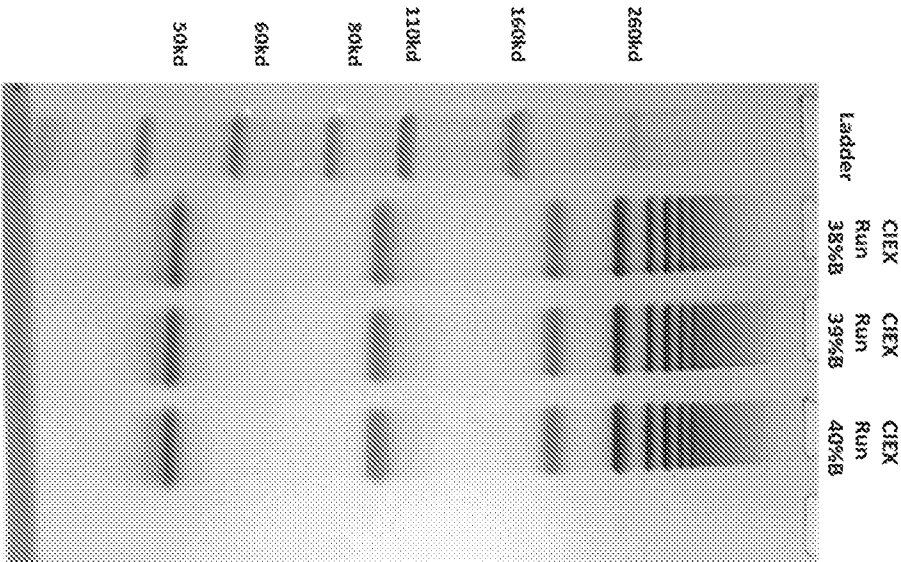


FIG. 27



Affinity purified GL-2045 control

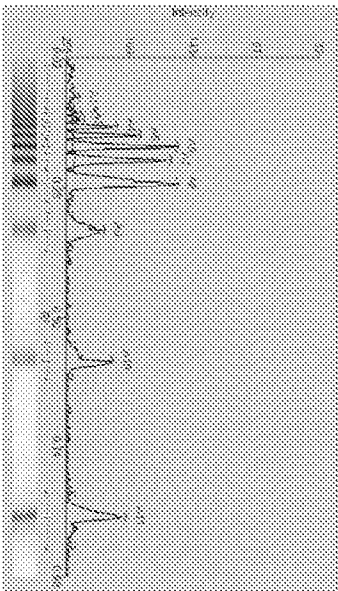


FIG. 29A

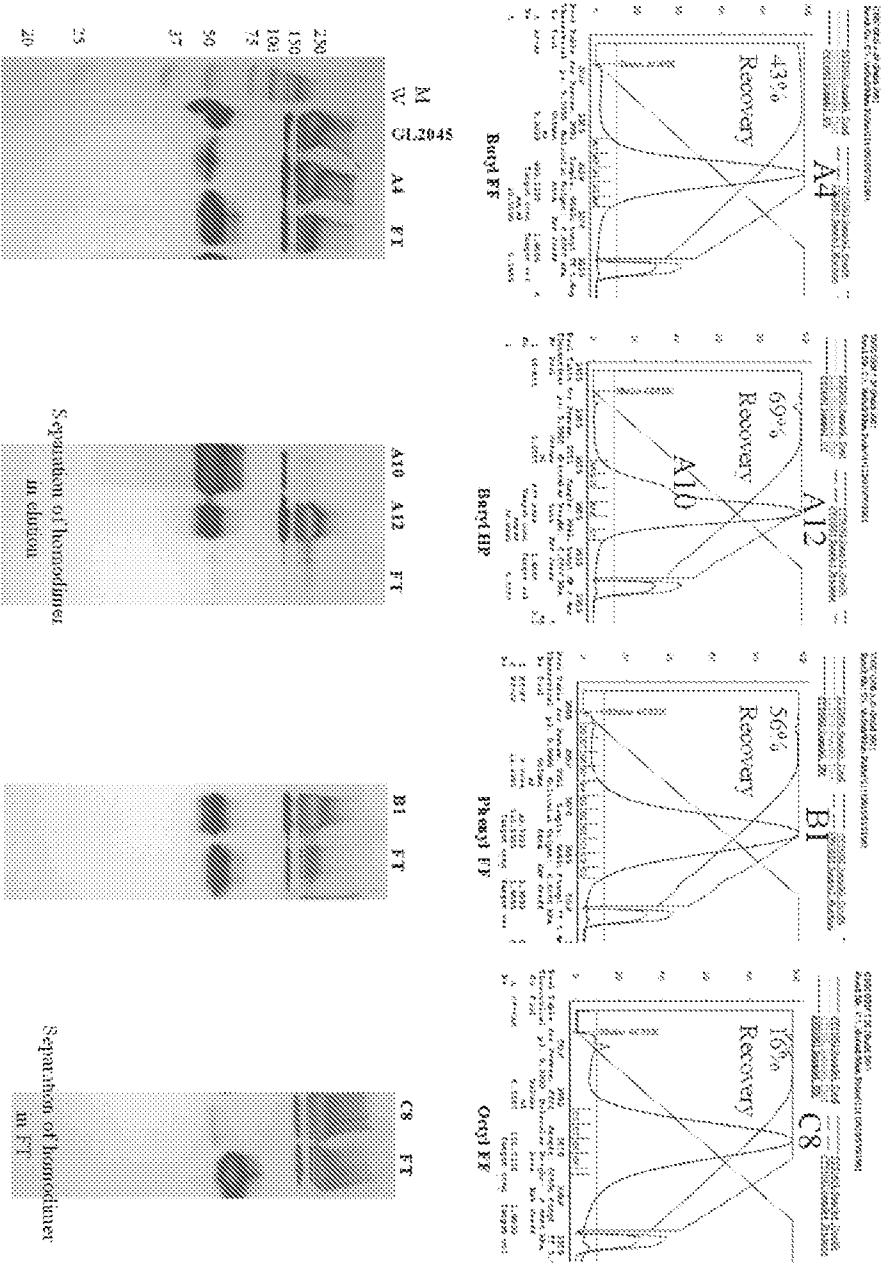
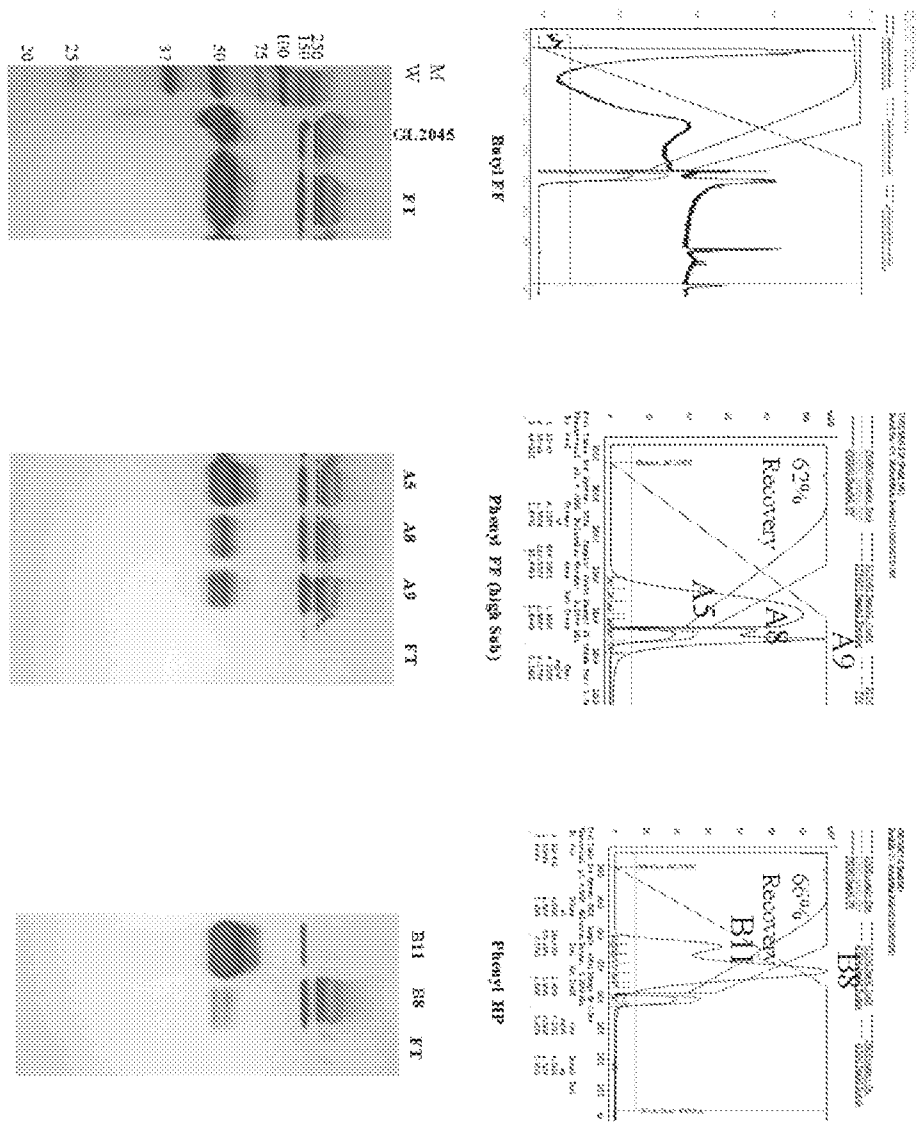


FIG. 29B



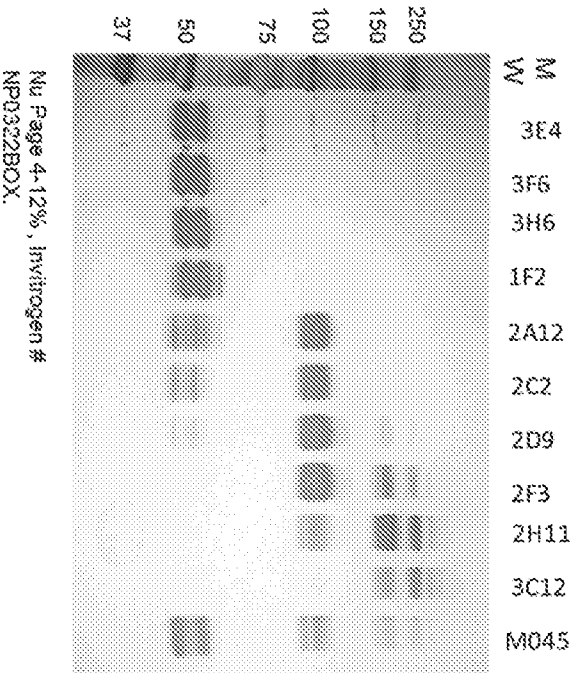
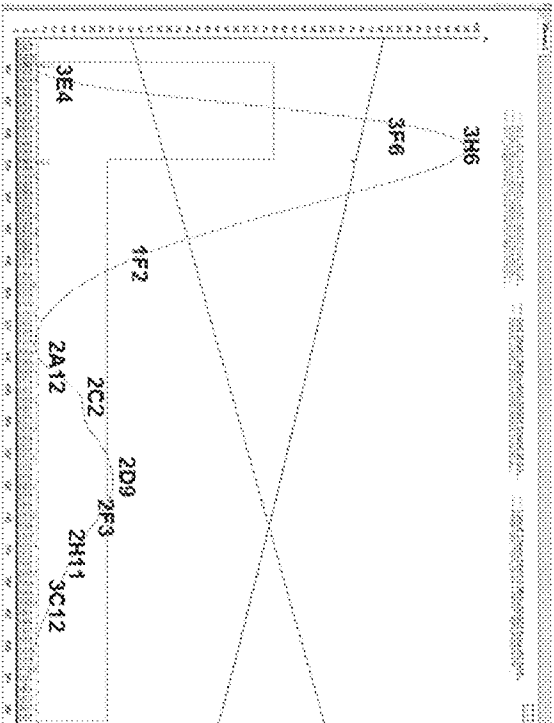


FIG. 30



Column: GE, HiLoad Phenyl Sepharose High performance # 17-1066-01
Start Buffer: 0.1M Na phosphate + 1M Ammonium Sulfate pH 7.0
Elution Buffer: 0.1M Na phosphate pH 7.0
Loading: 17mg (+2V Start buffer).
Flow rate: 3ml/min
Fraction size: 2ml
Measurement of quantity: by UV
at 280nm (directly with AKTA Avant).

FIG. 31

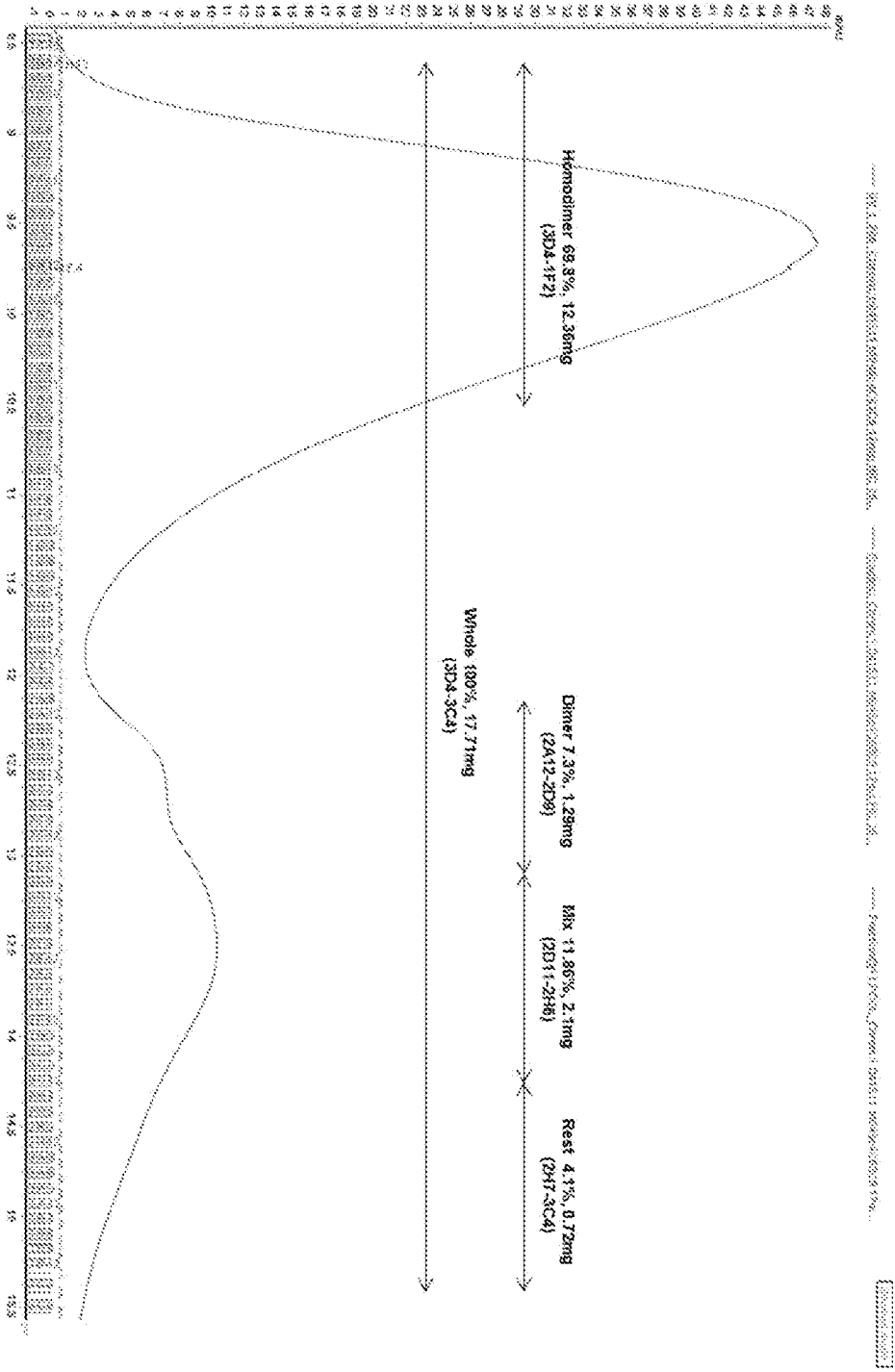


FIG. 32

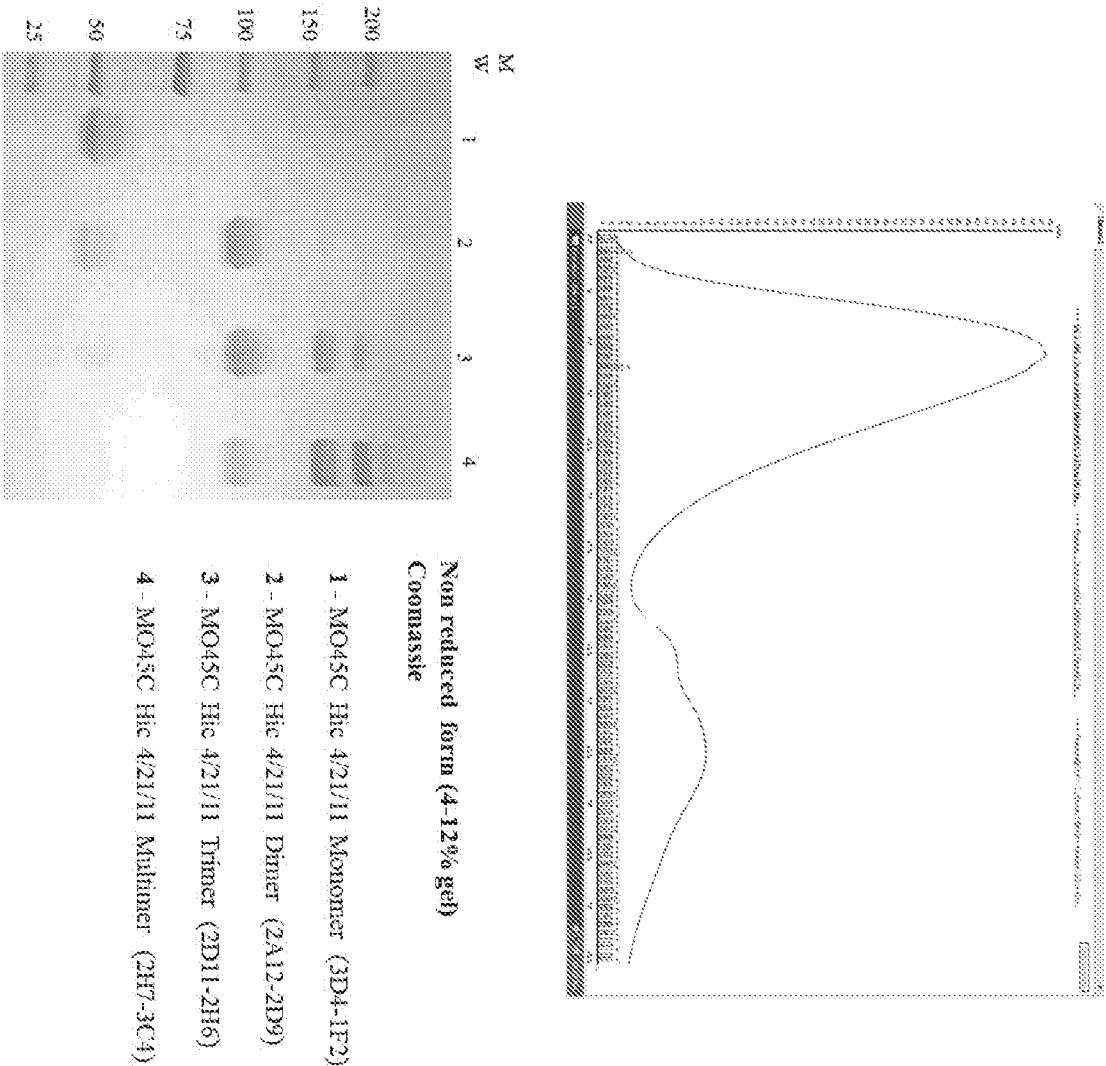


FIG. 33
Multimer Type

