

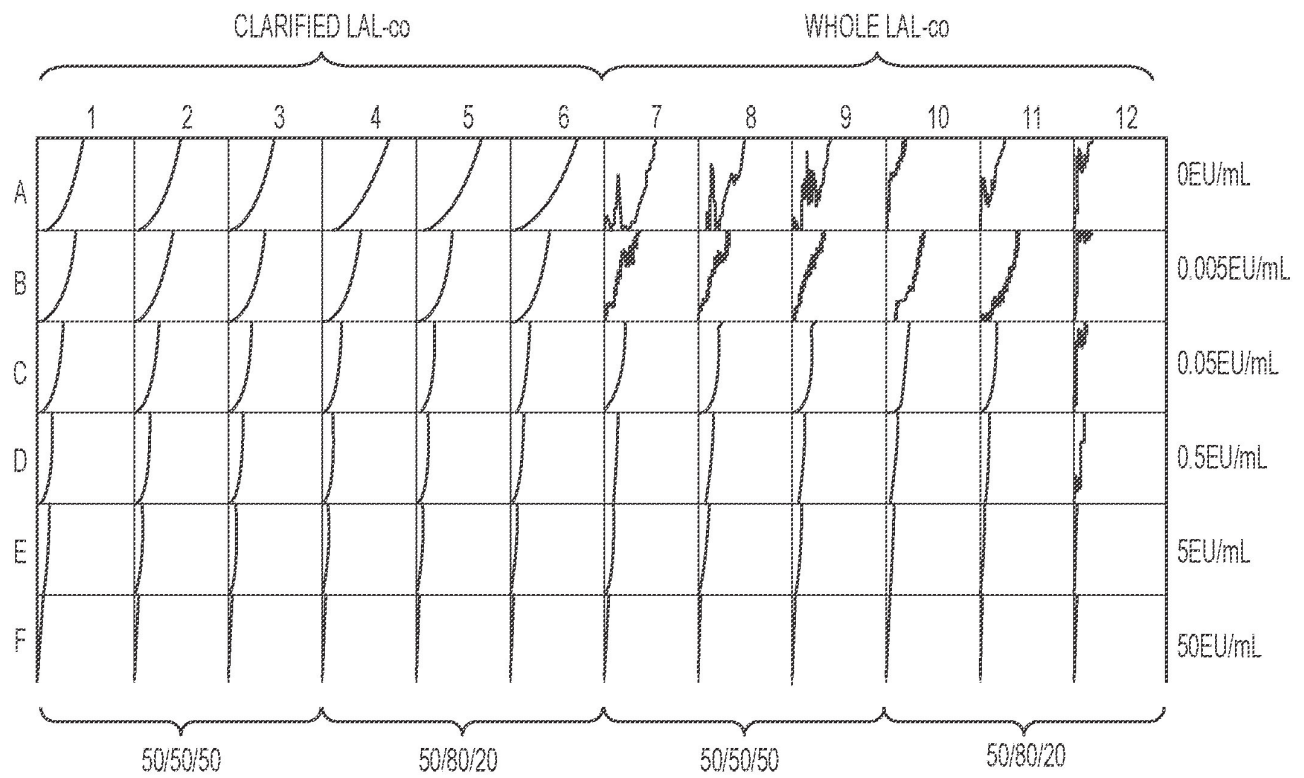


FIG. 1

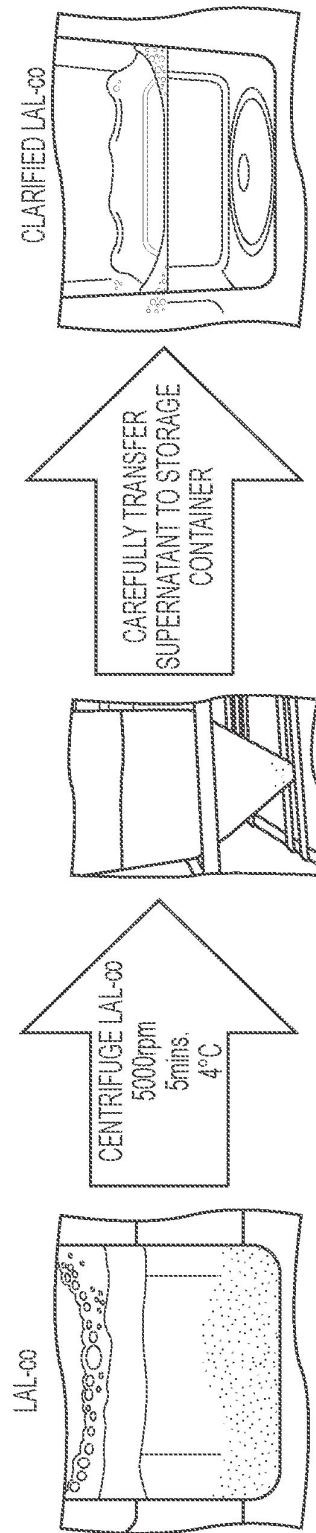


FIG. 2

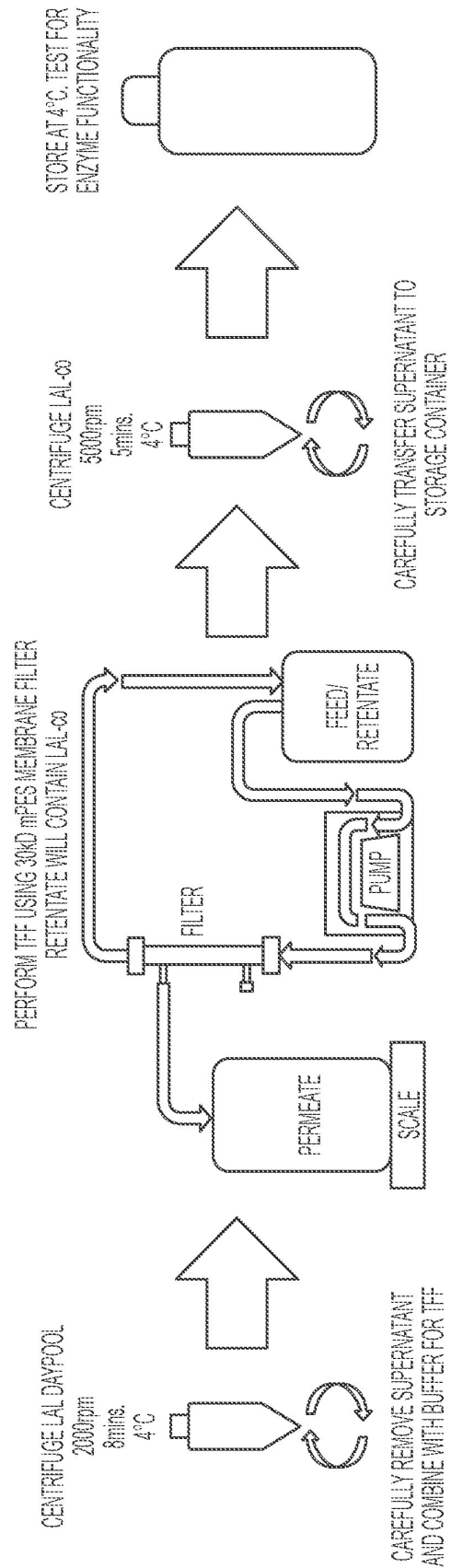


FIG. 3

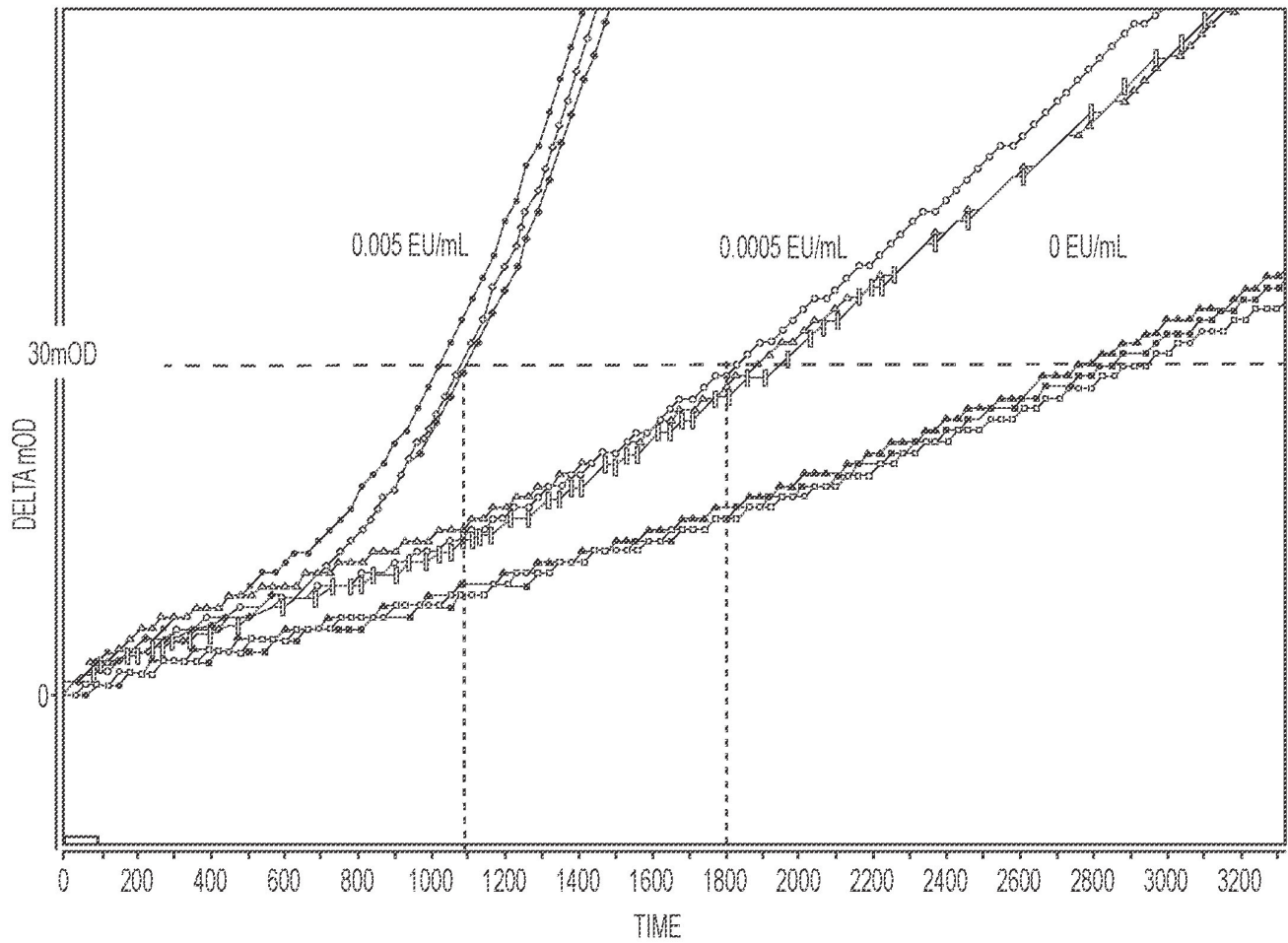


FIG. 4

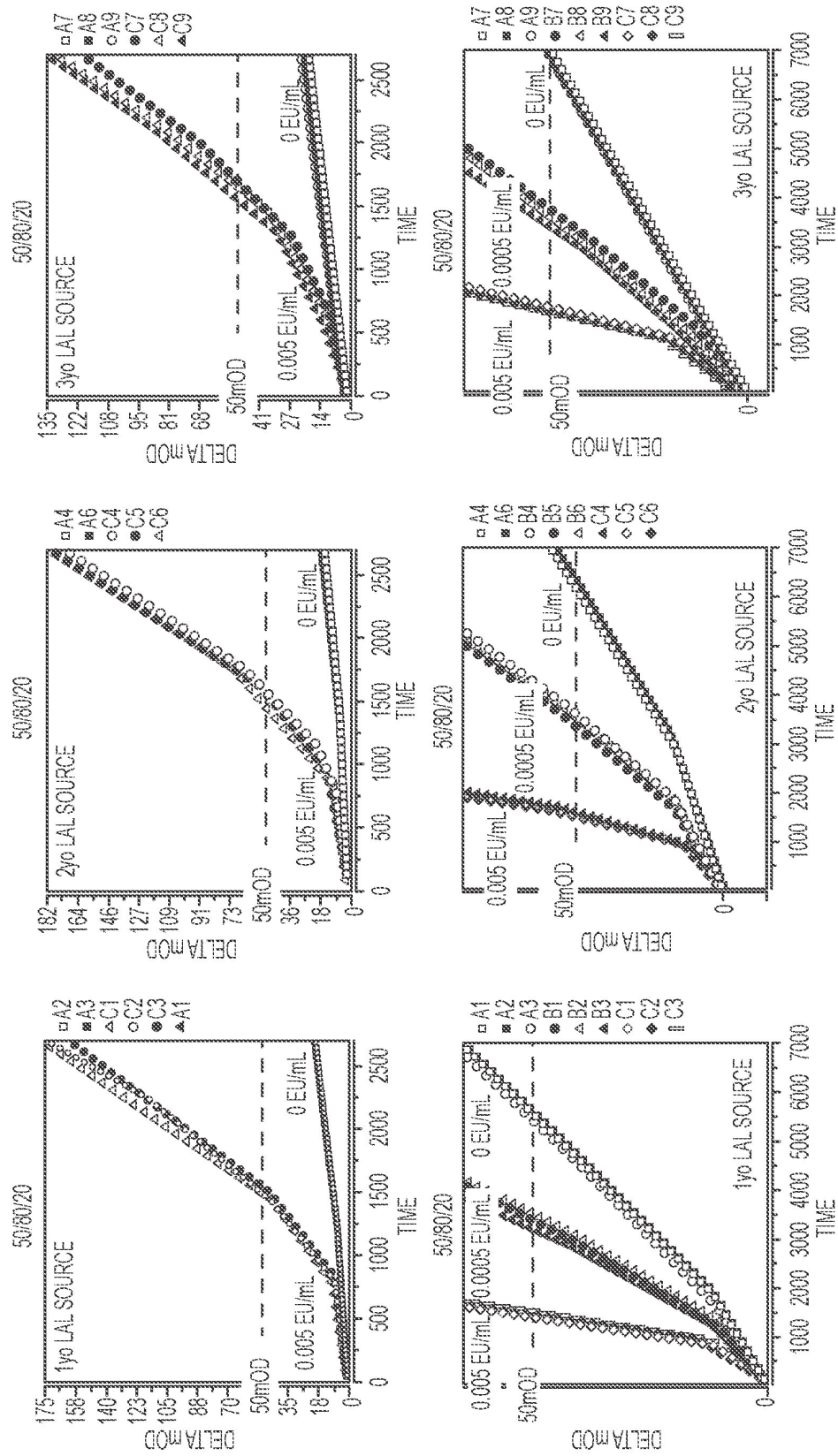


FIG. 5

	50mOD	BLANK	0.005EU/ml	Sepa. 0-0.005EU/ml	0.005EU/ml rxn. TIME (MINS)
A)	50/80/20, 0.020%Z314, 1yoLAL SOURCE	5515	1497	4018	25
B)	50/80/20, 0.020%Z314, 2yoLAL SOURCE	6310	1558	4752	26
C)	50/80/20, 0.020%Z314, 3yoLAL SOURCE	6915	1685	5230	28

	30mOD	BLANK	0.005EU/ml	Sepa. 0-0.005EU/ml	0.005EU/ml rxn. TIME (MINS)
A)	50/80/20, 0.020%Z314, 1yoLAL SOURCE	3675	1220	2455	20
B)	50/80/20, 0.020%Z314, 2yoLAL SOURCE	4330	1275	3055	21
C)	50/80/20, 0.020%Z314, 3yoLAL SOURCE	4005	1300	2705	22

	20mOD	BLANK	0.005EU/ml	Sepa. 0-0.005EU/ml	0.005EU/ml rxn. TIME (MINS)
A)	50/80/20, 0.020%Z314, 1yoLAL SOURCE	2705	1045	1660	17
B)	50/80/20, 0.020%Z314, 2yoLAL SOURCE	3220	1075	2145	18
C)	50/80/20, 0.020%Z314, 3yoLAL SOURCE	2655	1035	1620	17

FIG. 6

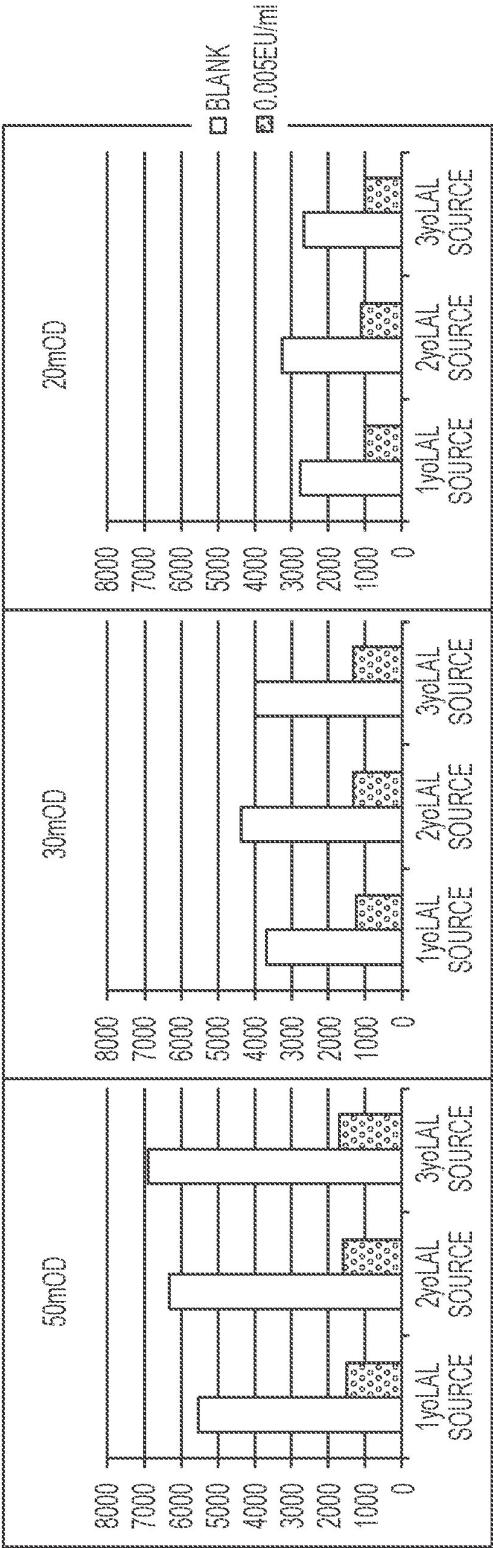


FIG. 7

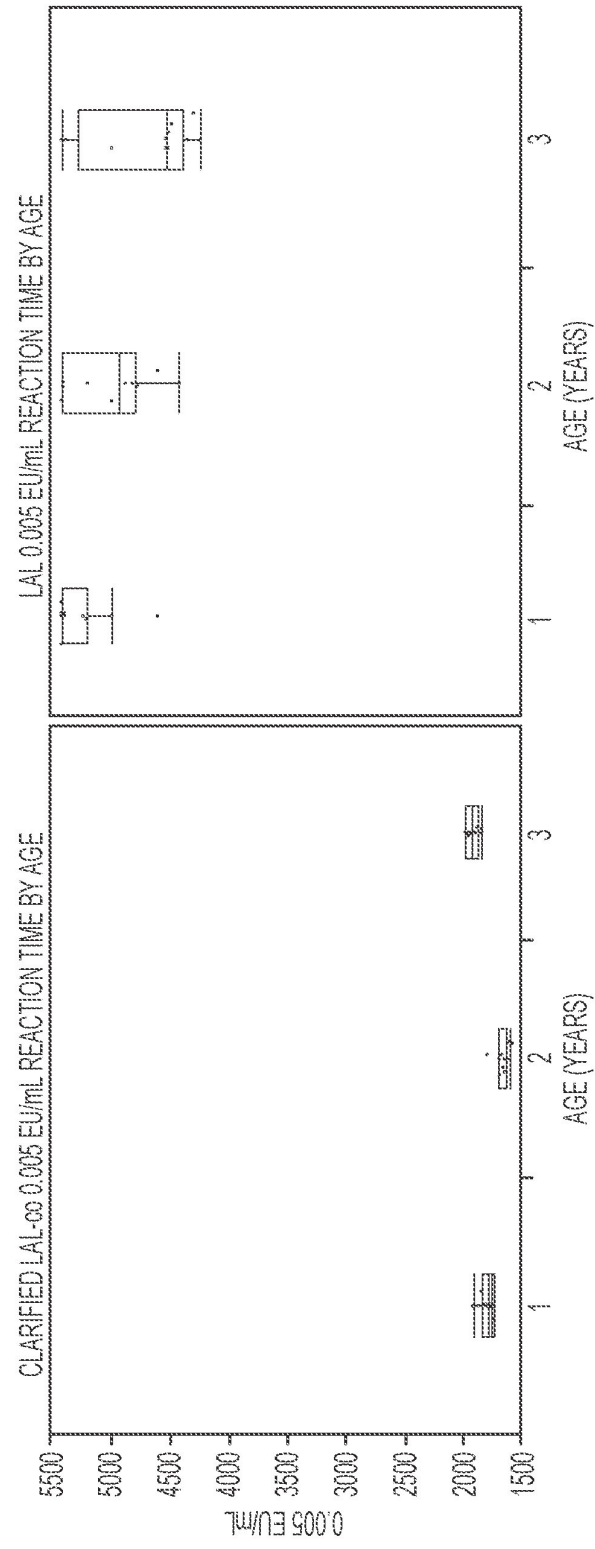
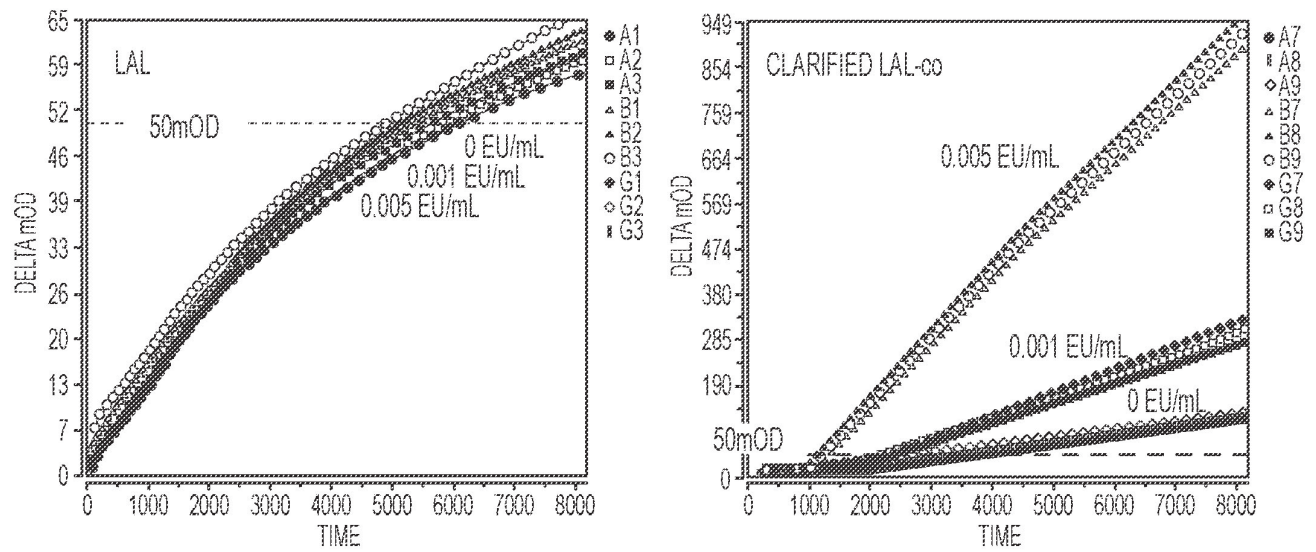


FIG. 8



REAGENT	0.005 EU/mL REACTION TIME (MIN)	0-0.005 EU/mL SEPARATION (SEC)
LAL	84	770
CLARIFIED LAL-co	22	2787

FIG. 9

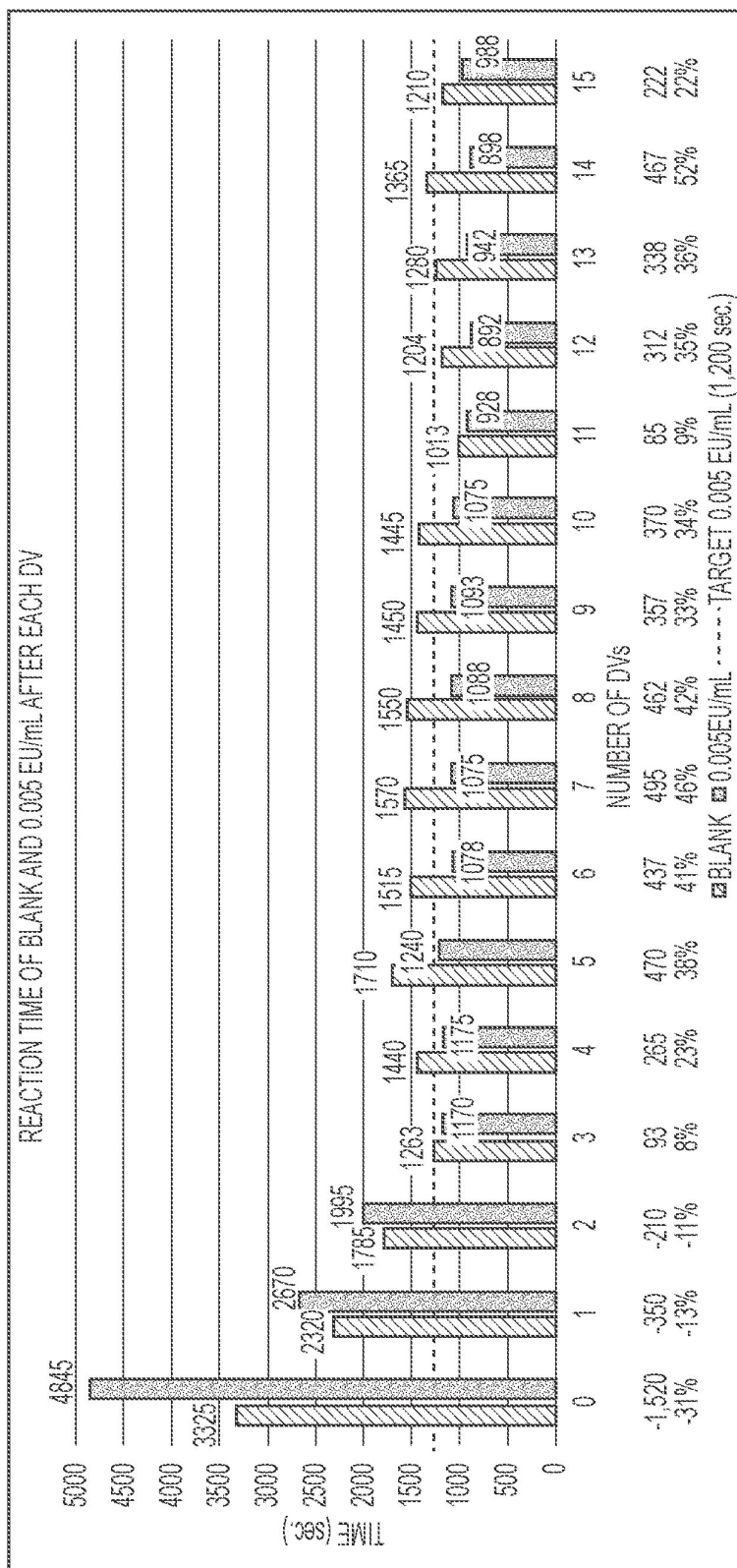


FIG. 10

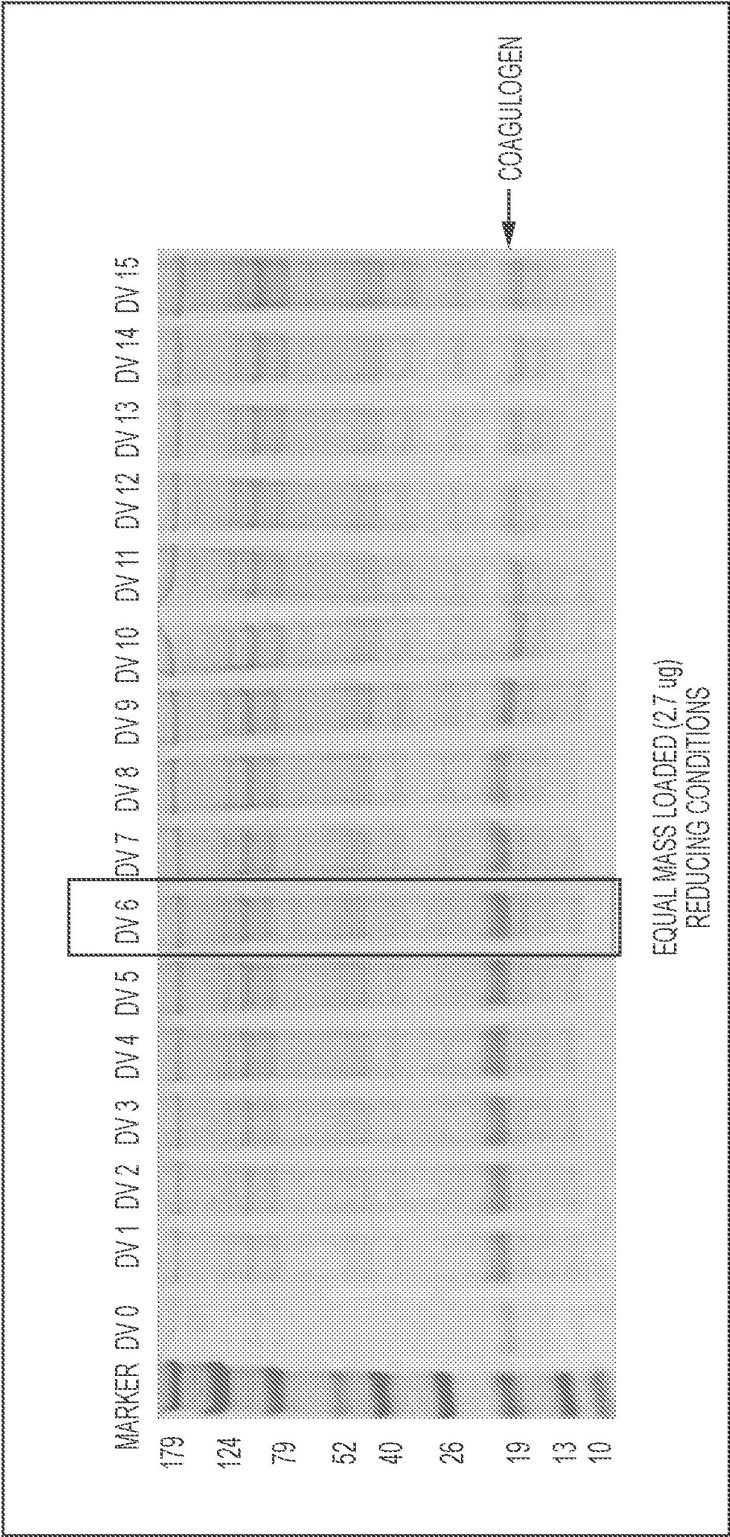


FIG. 11

No. Of DVs	Conc. (ug/uL)	20 kD Lane %
DV 0	46.9	37
DV 1	22.2	36
DV 2	13.3	33
DV 3	8.0	32
DV 4	6.0	31
DV 5	5.1	28
DV 6	4.4	28
DV 7	4.4	24
DV 8	4.3	23
DV 9	4.3	22
DV 10	3.9	18
DV 11	3.5	17
DV 12	3.4	13
DV 13	3.5	12
DV 14	3.1	11
DV 15	2.7	13

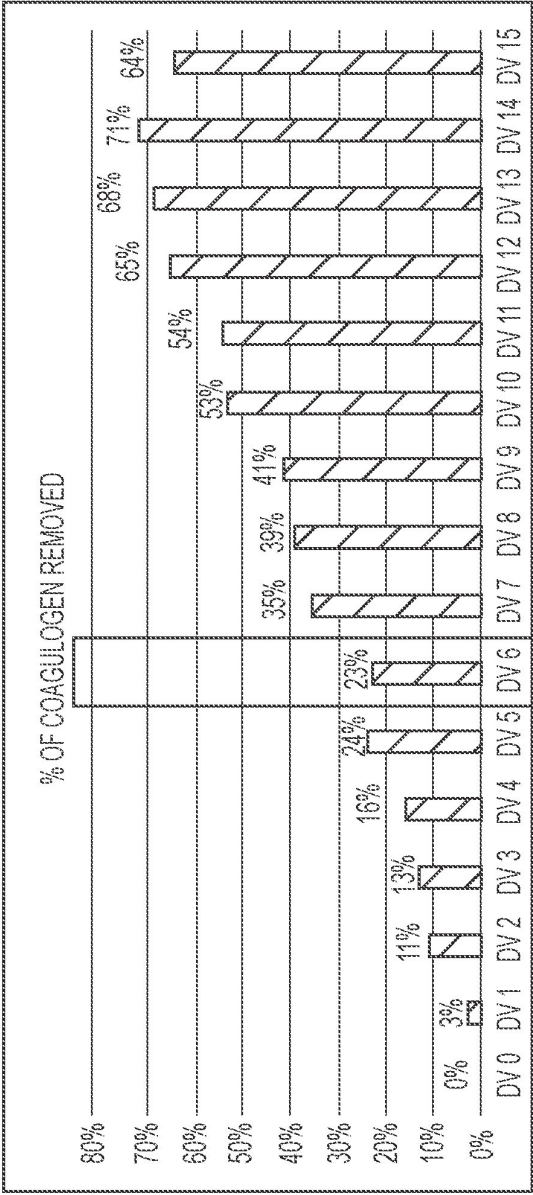


FIG. 12

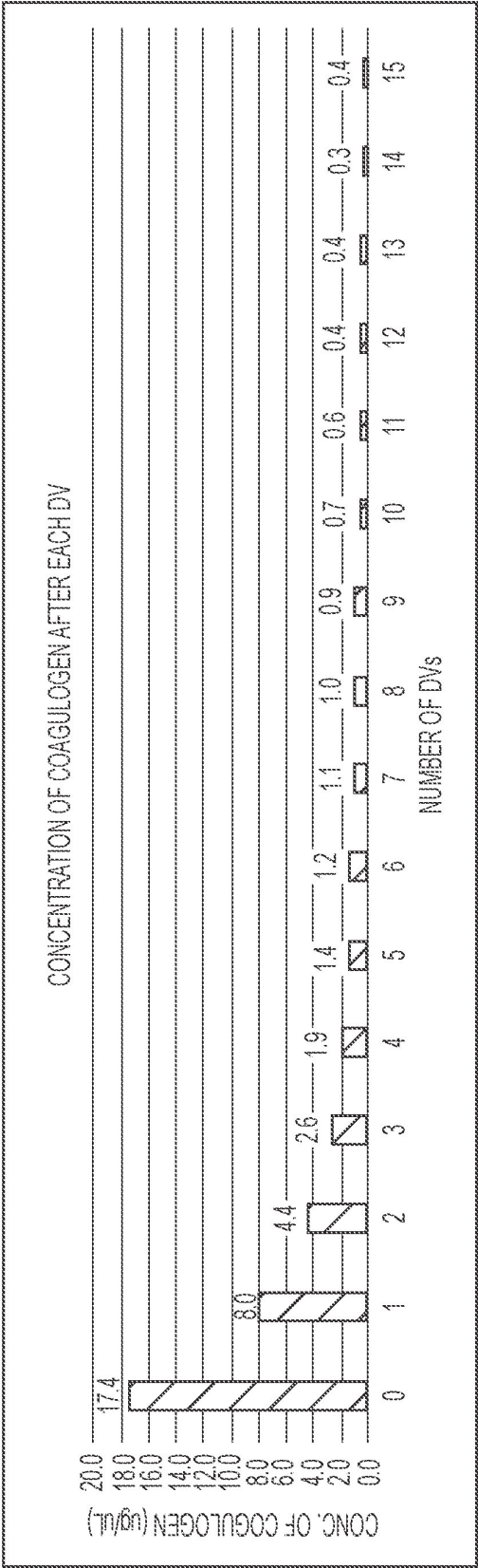


FIG. 13

PROTEINS & PEPTIDES	MASS (kDa)	FUNCTION/SPECIFICITY	LOCALIZATION
COAGULATION FACTORS			
FACTOR C	123	SERINE PROTEASE	L-GRANULE
FACTOR B	64	SERINE PROTEASE	ND
FACTOR G	110	SERINE PROTEASE	L-GRANULE
PROCLOTTING ENZYME	54	SERINE PROTEASE	L-GRANULE
COAGULOGEN	20	GELATION	L-GRANULE
PROTEASE INHIBITORS			
ICI-1	48	SERPIN/FACTOR C	L-GRANULE
ICI-2	42	SERPIN/CLOTTING ENZYME	L-GRANULE
ICI-3	53	SERPIN/FACTOR G	L-GRANULE
TRYPSIN INHIBITOR	6.8	KUNITZ-TYPE	ND
LTI	16	NEW TYPE	ND
LEBP-PI	12	NEW TYPE	L-GRANULE
LINNULUS CYSTATIN	12.6	CYSTATIN FAMILY 2	L-GRANULE
α 2-MACROGLOBULIN	180	COMPLEMENT	PLASMA
ANTIMICROBIAL SUBSTANCES			
ANTI-LPS FACTOR	12	GNB	L-GRANULE
TACHYPLESINS	2.3	GNB, GPB, FN	S-GRANULE
POLYPHEMUSINS	2.3	GNB, GPB, FN	S-GRANULE
BIG DEFENSIN	8.6	GNB, GPB, FN	L & S-GRANULES
TACHYCITIN	8.3	GNB, GPB, FN	S-GRANULE
TACHYSTATINS	6.5	GNB, GPB, FN	S-GRANULE
FACTOR D	42	GNB	L-GRANULE
LECTINS			
TACHYLECTIN-1	27	LPS (KDO), LTA	L-GRANULE
TACHYLECTIN-2	27	GkNAc, LTA	L-GRANULE
TACHYLECTIN-3	15	LPS	L-GRANULE
TACHYLECTIN-4	470	LPS (O-ANTIGEN), LTA	ND
TACHYLECTIN-5	380-440	N-ACETYL GROUP	ND
LINNUNECTIN	54	PC	L-GRANULE
18K-LAF	18	HEMOCYTE AGGREGATION	L-GRANULE
LINNULUN	300	HLA/PC, PE, SA, KDO	PLASMA
LCRP	300	PC, PE	PLASMA
TCRP-1	300	PE	PLASMA
TCRP-2	330	HLA/PE, SA	PLASMA
TCRP-3	340	HLA/SA, KDO	PLASMA
POLYPHEMIN	ND	LTA, GlcNAc	PLASMA
TTA	ND	SA, GkNAc, GalNAc	PLASMA
LIPHEMIN	400-500	SA	HEMOLYMPH
CARCINOSCORPIN	420	SA, KDO	HEMOLYMPH
OTHERS			
TRANSGLUTAMINASE	86	CROSS-LINKING	CYTOSOL
8.6 kDa PROTEIN	8.6	TGASE SUBSTRATE	L-GRANULE
PRO-RICH PROTEIN	80	TGASE SUBSTRATE	L-GRANULE
LINNULUS KEXIN	70	PRECURSOR PROCESSING	ND
L1	11	UNKNOWN	L-GRANULE
L4	11	UNKNOWN	L-GRANULE

FIG. 14

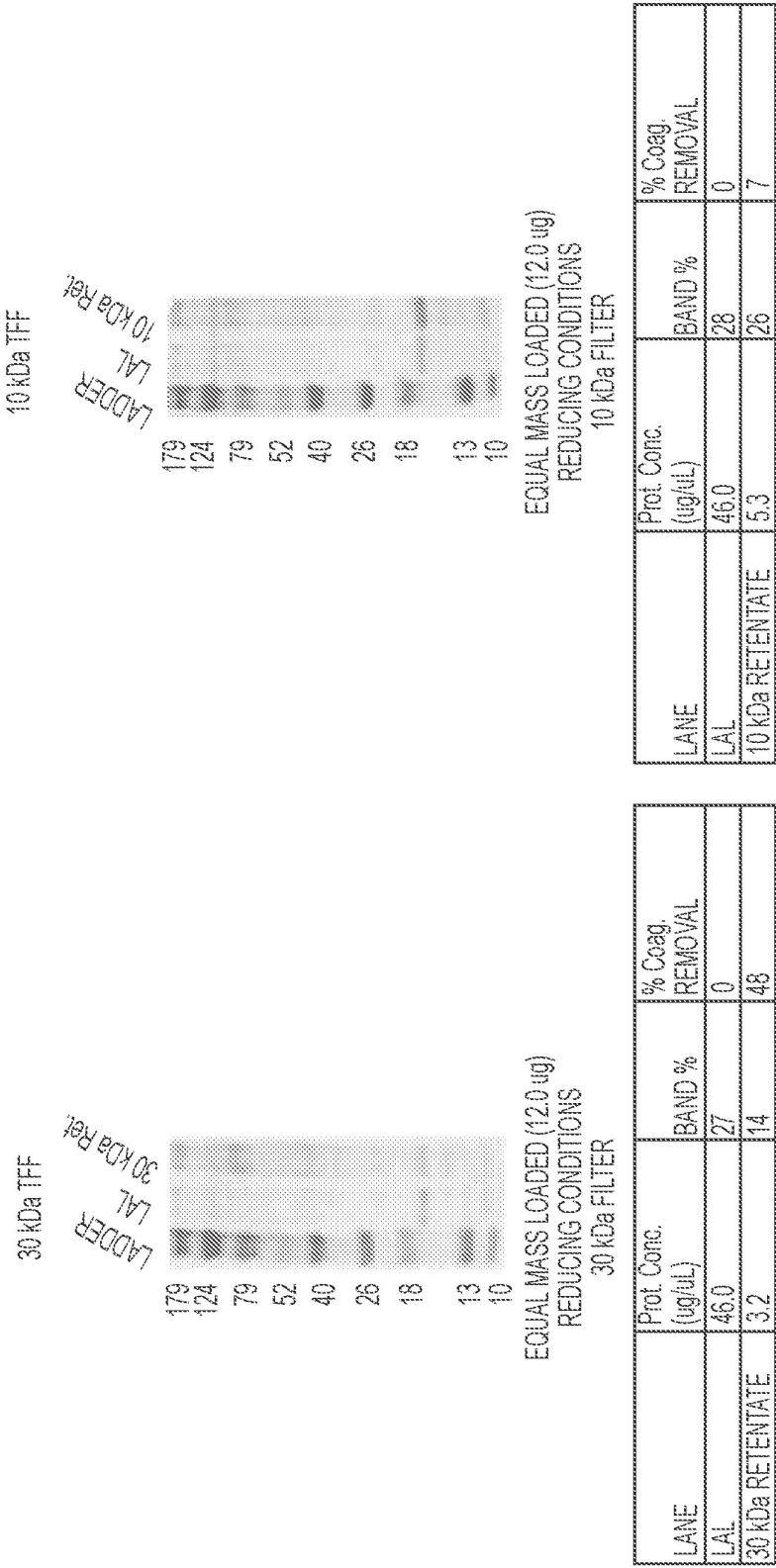


FIG. 15

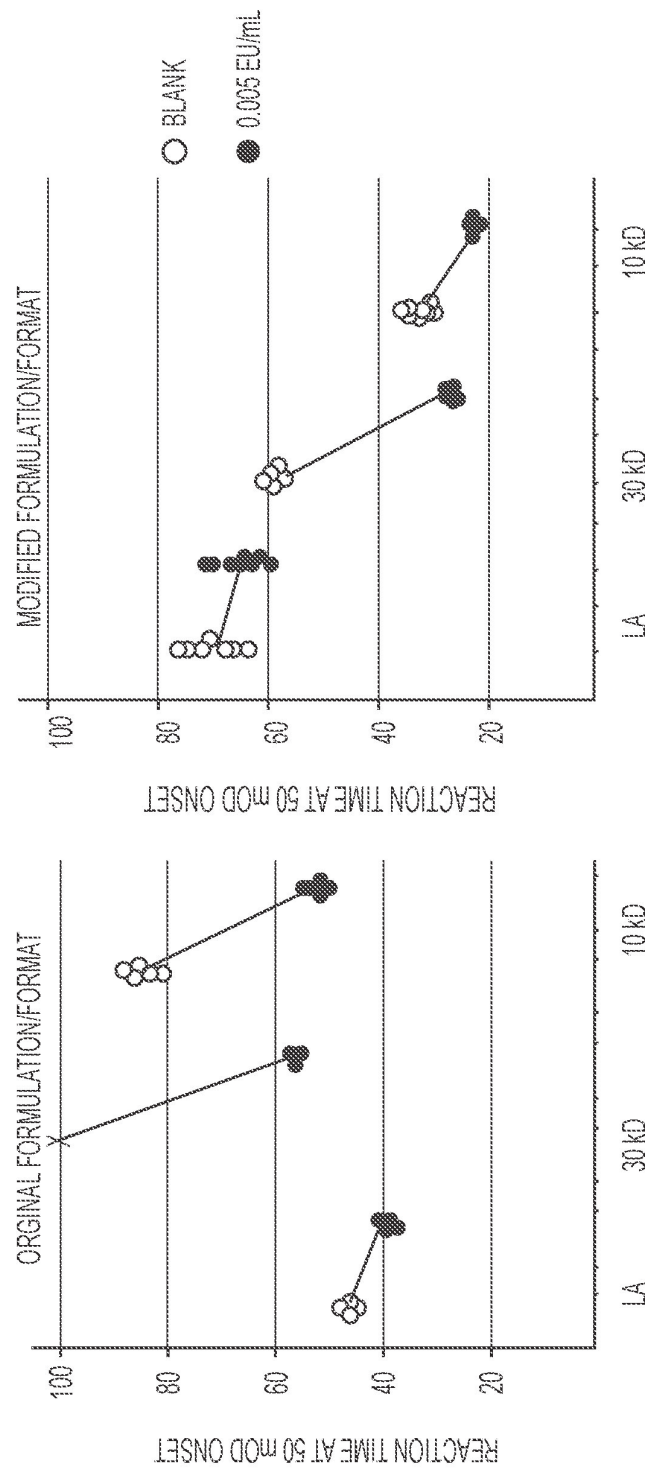


FIG. 16

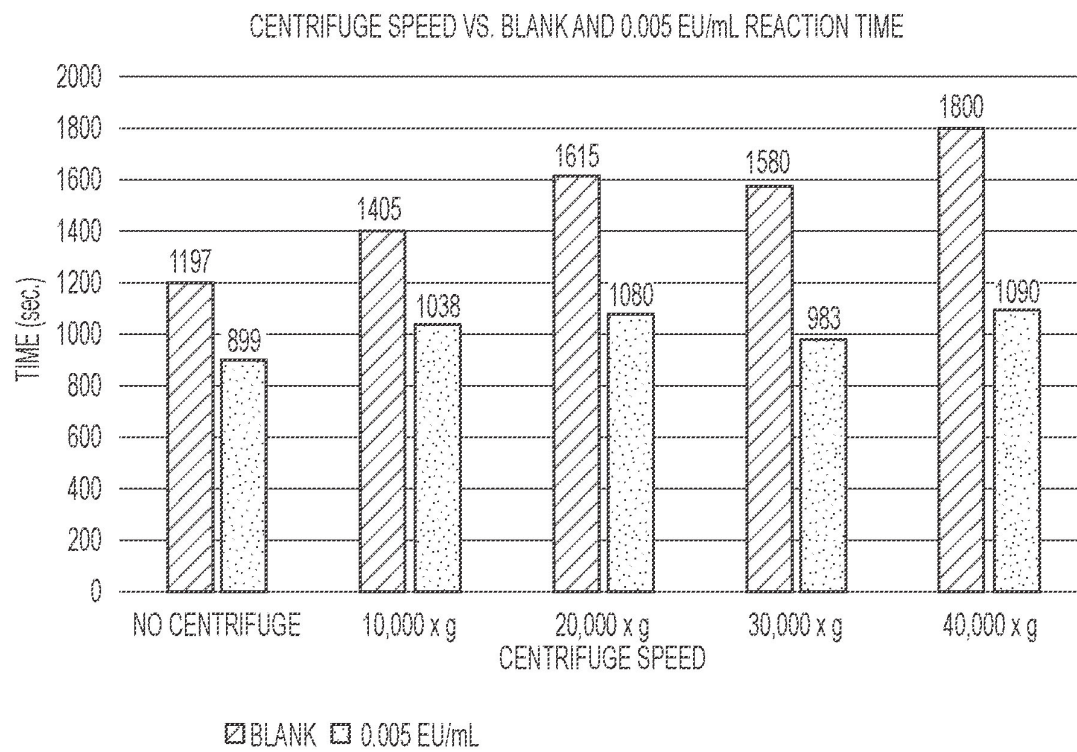


FIG. 17

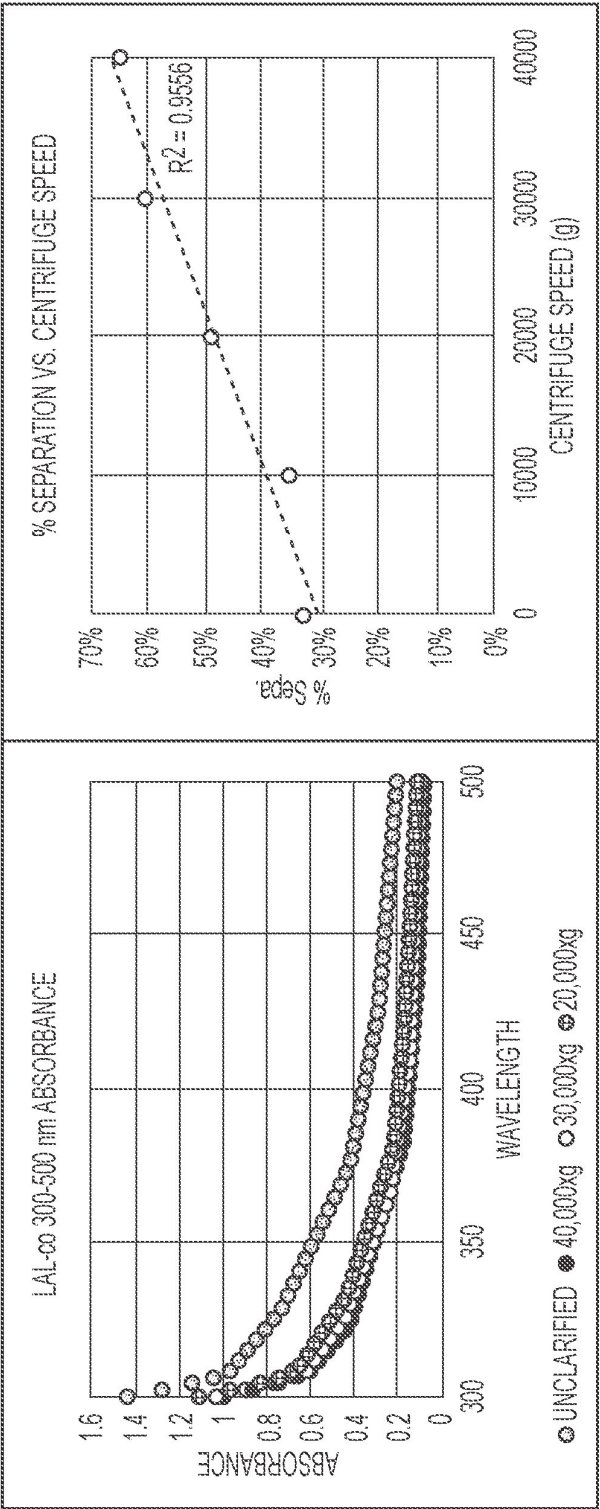


FIG. 18B

FIG. 18A

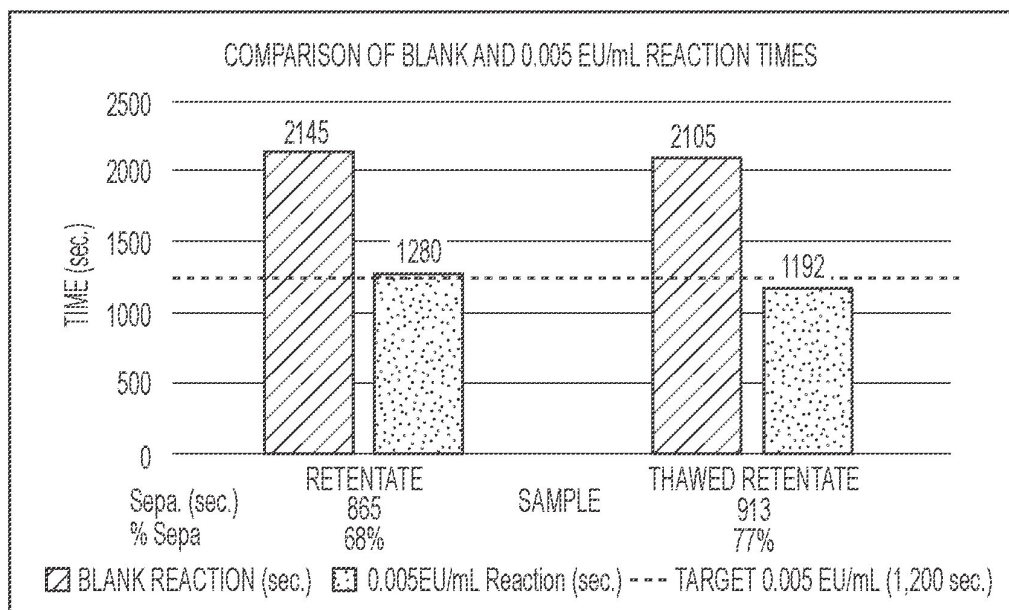


FIG. 19