

1/23

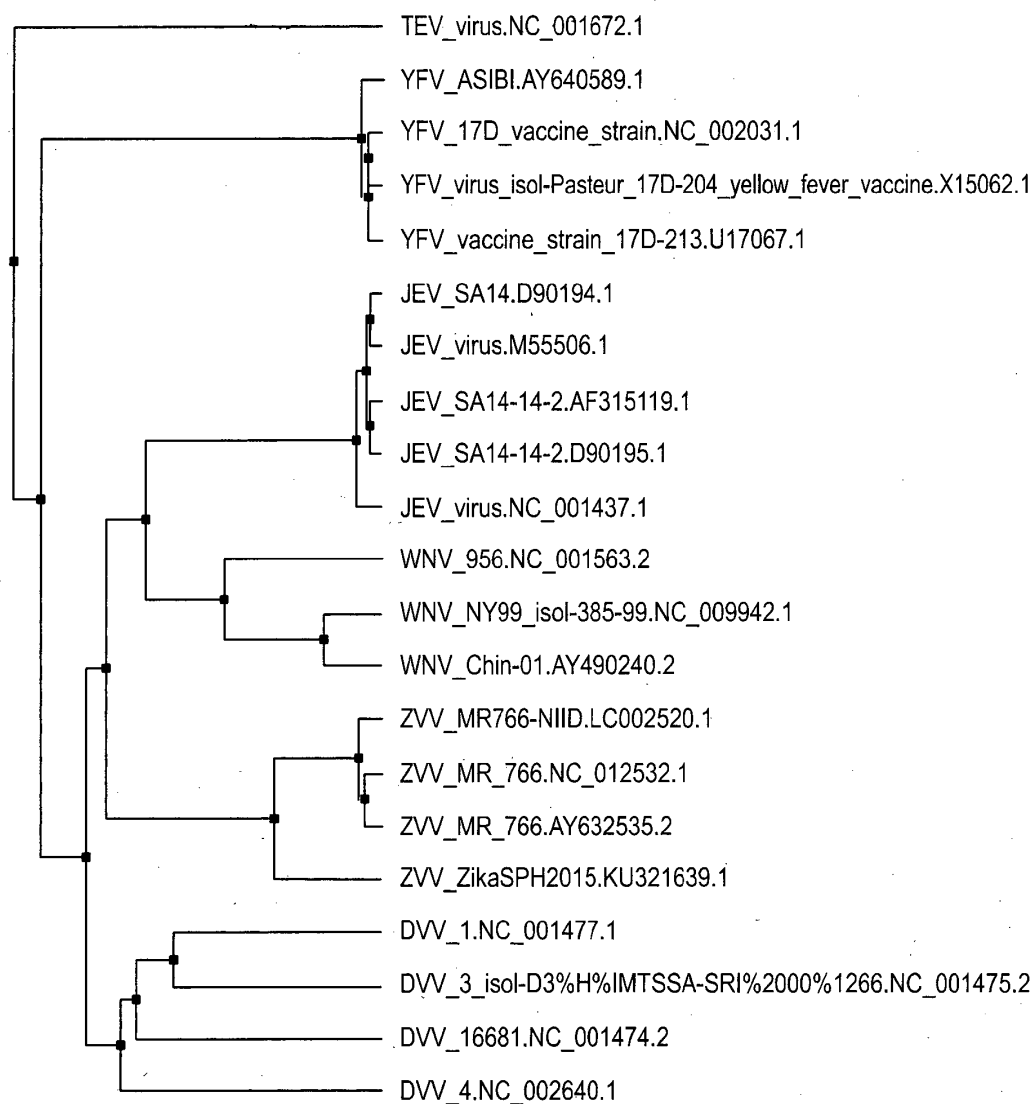


Figure 1

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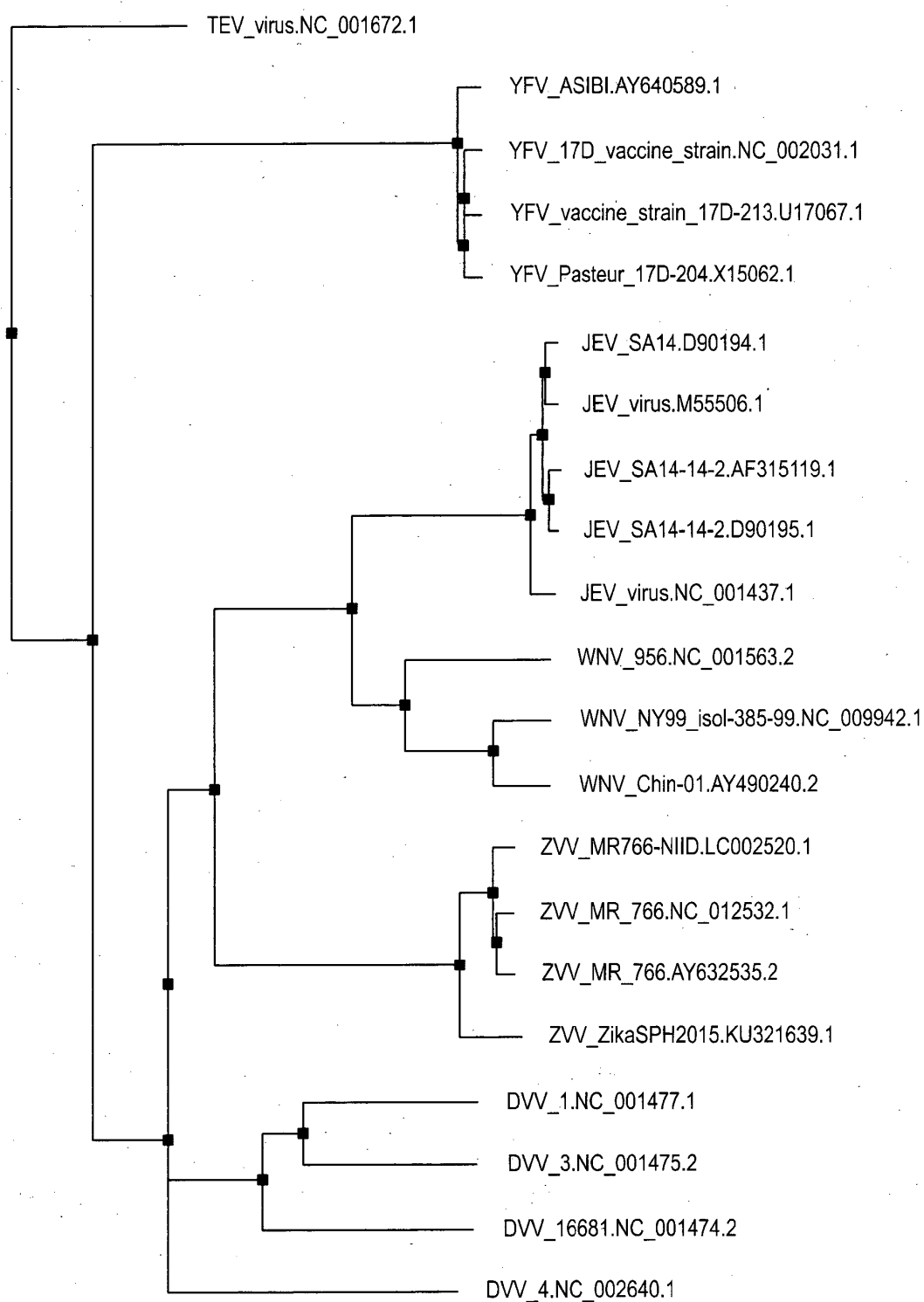


Figure 2

SUBSTITUTE SHEET (RULE 26)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DV 1NC 001477.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
DV 16881NC 001474.2	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
DV 3NC 001475.2	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
DV 4NC 002640.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
JEV SA14-14-2.AF315119.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
JEV SA14-14-2.D90195.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
JEV SA14.D90194.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
JEV virus.M55506.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
JEV virus.NC 001437.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
TEV virus.NC 001672.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
WNV 956.NC 001563.2	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
WNV Chin-01.AY490240.2	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
WNV NY99 isol-385-99.NC 009942.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
YFV 17D vaccine strain.NC 002031.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
YFV ASIB.AY640589.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
YFV Pasteur 17D-204.X15062.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
YFV vaccine strain 17D-213.U17067.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
ZV MR766-NIID.LC002520.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
ZV MR 766.AY632535.2	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
ZV MR 766.NC 012532.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
ZV ZikaSPH2015.KU321639.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

% Identity and higher
 % Identity and higher
 % Identity and higher

Figure 3

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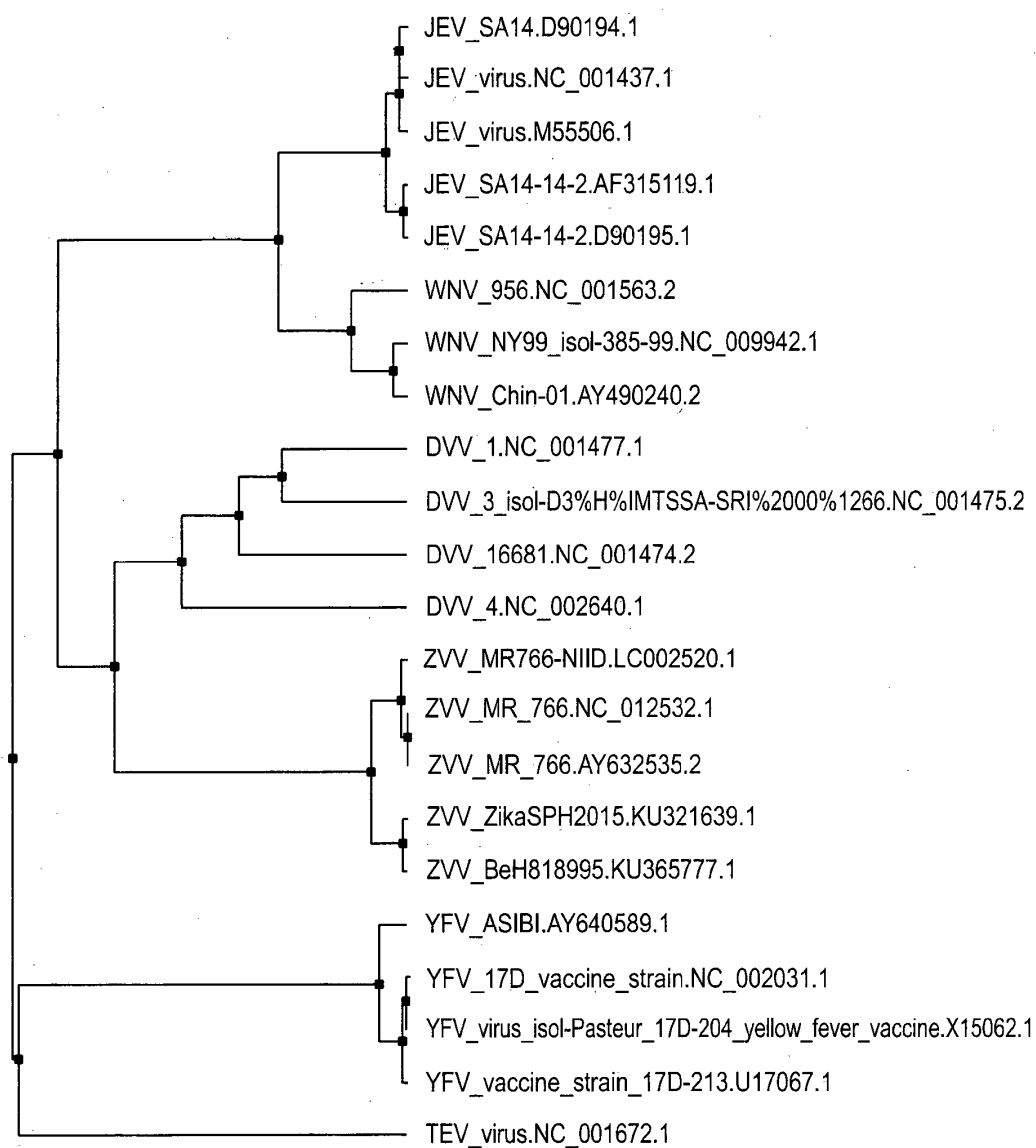


Figure 4

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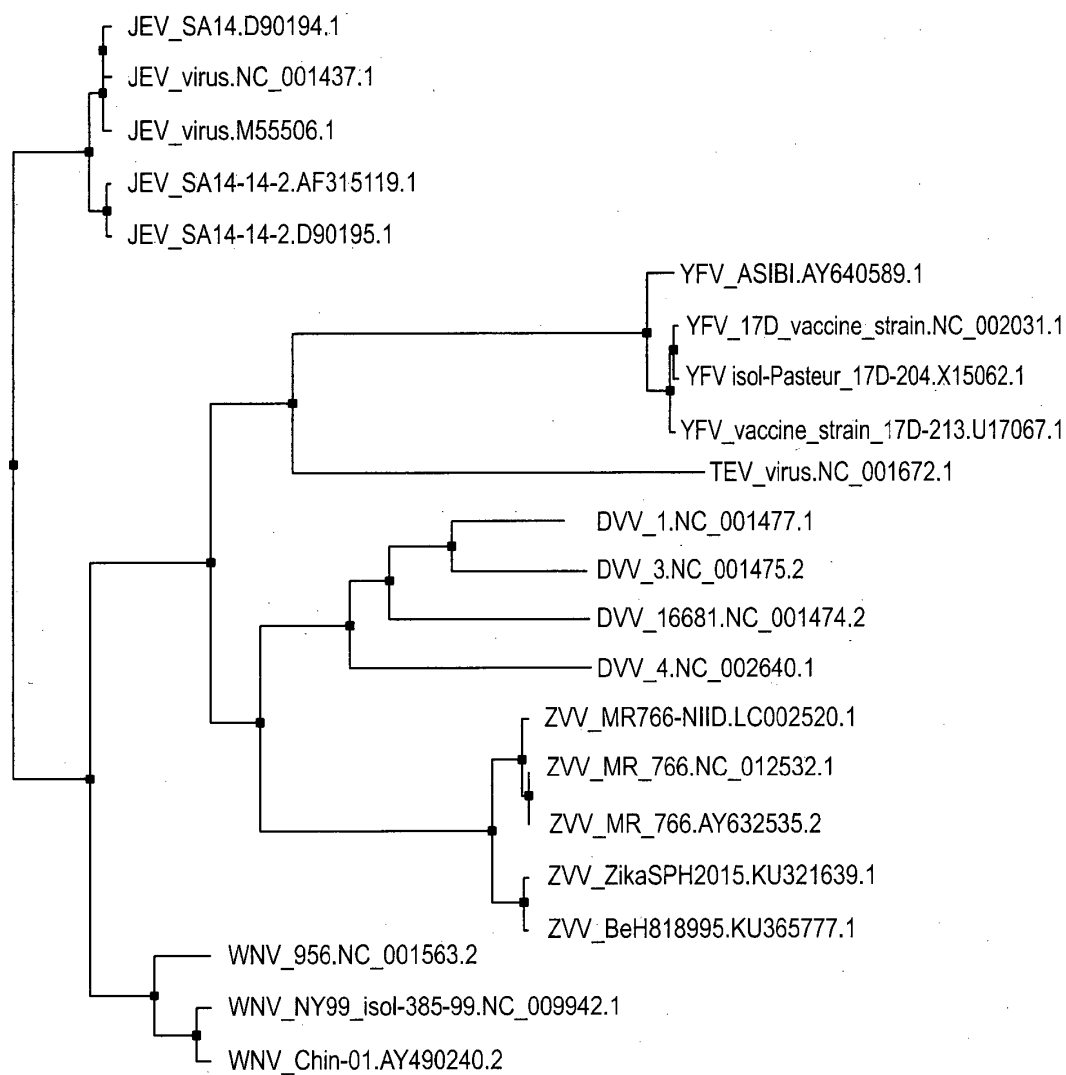


Figure 5

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	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DVV 1.NC 001477.1	0	100	88	77.4	63.8	49.7	49.7	50.1	49.9	50.5	38.3	51.5	50.5	50.9	43.0	43.8	43.0	43.2	57.3	57.9	58.4	57.1
DVV 16681.NC 001474.2	1	88	100	88	64.0	46.7	46.7	47.1	46.9	47.5	38.9	48.4	47.6	47.6	43.6	44.4	43.6	43.6	53.6	53.8	54.2	53.8
DVV 3.NC 001475.2	2	77.4	88	100	62.8	48.0	48.0	48.2	48.2	48.5	38.2	46.8	46.7	46.3	41.6	42.2	41.6	41.7	57.3	57.7	58.2	57.1
DVV 4.NC 002640.1	3	63.8	64.0	62.8	100	47.5	47.5	47.7	47.5	48.1	39.7	49.6	49.6	49.8	40.0	40.6	40.0	40.0	55.8	56.4	56.4	55.8
JEV SA14-14-2.AF315119.1	4	49.7	46.7	48.0	47.5	100	99.8	98.6	97.8	99.6	39.6	76.3	76.3	76.7	43.1	42.9	43.1	43.1	54.0	54.8	54.8	54.0
JEV SA14-14-2.D90195.1	5	49.7	46.7	48.0	47.5	99.8	100	98.2	98.8	98.0	39.8	76.3	76.7	76.9	43.1	42.9	43.1	43.1	54.0	54.8	54.8	54.0
JEV SA14.D90194.1	6	50.1	47.1	48.2	47.7	98.0	98.2	100	99.4	98.4	40.0	77.8	77.8	78.0	43.3	43.3	43.3	43.3	54.4	55.4	55.2	54.4
JEV virus.M55506.1	7	49.9	46.9	48.2	47.5	98.6	98.8	99.4	100	99.2	40.0	77.3	77.3	77.8	43.3	43.3	43.3	43.3	54.2	55.0	55.0	54.2
JEV virus.NC 001437.1	8	50.5	47.5	48.6	48.1	97.8	98.0	99.4	99.2	100	40.4	78.0	78.4	78.6	43.5	43.5	43.5	43.5	54.8	55.4	55.2	54.8
TEV virus.NC 001672.1	9	38.3	38.9	38.2	39.7	39.6	39.8	40.0	40.0	40.4	40.0	41.3	41.6	41.0	42.3	41.9	42.3	42.3	39.9	39.9	39.6	39.9
WNV 956.NC 001563.2	10	51.5	48.4	46.8	49.6	76.1	75.3	77.3	77.3	78.0	41.3	100	94.6	94.0	43.8	43.6	43.8	43.8	55.0	55.0	54.8	55.0
WNV Chin-01.AY490240.2	11	50.5	47.6	46.7	49.6	76.5	76.7	77.3	77.6	78.4	41.6	94.6	100	98.8	43.9	43.5	43.9	43.9	54.4	54.2	54.0	54.4
WNV NY99 isol-385-99.NC 009942.1	12	50.9	47.6	45.3	49.8	76.7	76.9	78.0	77.8	78.6	41.0	94.0	98.8	100	43.9	43.5	43.9	43.9	54.0	53.8	53.8	54.0
YFV 17D vaccine strain.NC 002031.1	13	43.0	43.6	41.6	40.0	43.1	43.1	43.3	43.3	43.5	42.3	43.8	43.9	43.9	100	97.6	100	99.8	42.0	43.4	43.5	42.0
YFV ASIB.AY640589.1	14	43.8	44.4	42.2	40.6	42.9	42.9	43.3	43.3	43.5	41.9	43.6	43.5	43.5	97.8	100	97.6	97.4	42.4	43.8	43.9	42.4
YFV isol-Pasteur 17D-204.X15062.1	15	43.0	43.6	41.6	40.0	43.1	43.1	43.3	43.3	43.5	42.3	43.8	43.9	43.9	100	97.6	100	99.8	42.0	43.4	43.5	42.0
YFV vaccine strain 17D-213.U17067.1	16	43.2	43.6	41.7	40.0	43.1	43.1	43.3	43.3	43.5	42.3	43.8	43.9	43.9	99.8	97.4	99.8	100	42.0	43.4	43.5	42.0
ZVBeH818995.KU365777.1	17	57.3	53.8	57.3	55.8	54.0	54.0	54.4	54.2	54.8	39.9	55.0	54.4	54.0	42.0	42.4	42.0	42.0	100	96.8	96.4	98.8
ZV MR766-NIID.LC002520.1	18	57.9	53.8	57.7	56.4	54.8	54.8	55.4	55.2	55.4	39.9	55.0	54.2	53.8	43.4	43.8	43.4	43.4	96.8	100	98.8	98.6
ZV MR 766.AY632535.2	19	58.4	54.2	58.2	56.4	54.8	54.8	55.2	55.0	55.2	39.6	54.8	54.0	53.8	43.5	43.9	43.5	43.5	96.4	98.8	100	98.2
ZV MR 766.NC 012532.1	20	58.4	54.2	58.2	56.4	54.8	54.8	55.2	55.0	55.2	39.6	54.8	54.0	53.8	43.5	43.9	43.5	43.5	96.4	98.8	100	98.2
ZV ZikaSPH2015.KU321639.1	21	57.1	53.8	57.1	55.8	54.0	54.0	54.4	54.2	54.8	39.9	55.0	54.4	54.0	42.0	42.4	42.0	42.0	96.8	96.6	96.2	98.0

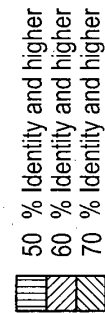


Figure 6

[illegible]

Figure 7 (Part 2 of 3)

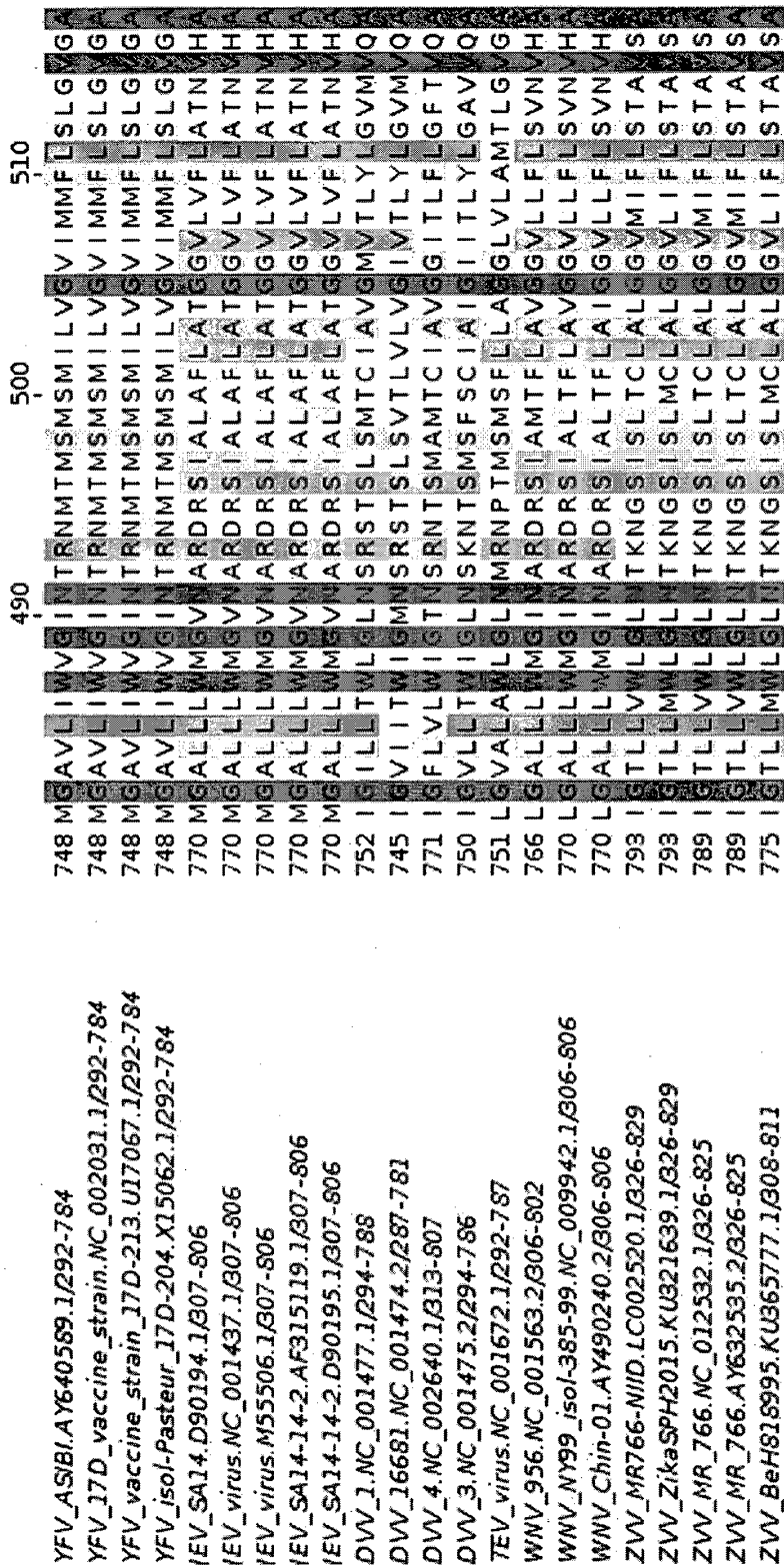


Figure 7 (Part 3 of 3)

YFV_ASBI.AY640589.1/292-784
YFV_17D_vaccine_strain_NC_002031.1/292-784
YFV_vaccine_strain_17D-213.U17067.1/292-784
YFV_isol-Pasteur_17D-204.X15062.1/292-784
IEV_SA14.D90194.1/307-806
IEV_virus_NC_001437.1/307-806
IEV_virus.M55506.1/307-806
IEV_SA14-14-2.AF315119.1/307-806
IEV_SA14-14-2.D90195.1/307-806
DWW_1.NC_001477.1/294-788
DWW_16681.NC_001474.2/287-781
DWW_4.NC_002640.1/313-807
DWW_3.NC_001475.2/294-786
TEV_virus_NC_001672.1/292-787
WNV_956.NC_001563.2/306-802
WNV_NY99_isol-385-99.NC_009942.1/306-806
WNV_Chin-01.AY490240.2/306-806
ZVV_MR766.NIID.LC002520.1/326-829
ZVV_ZikaSPH2015.KU321639.1/326-829
ZVV_MR_766.NC_012532.1/326-825
ZVV_MR_766.AY632535.2/326-825
ZVV_BeH818995.KU365777.1/308-811

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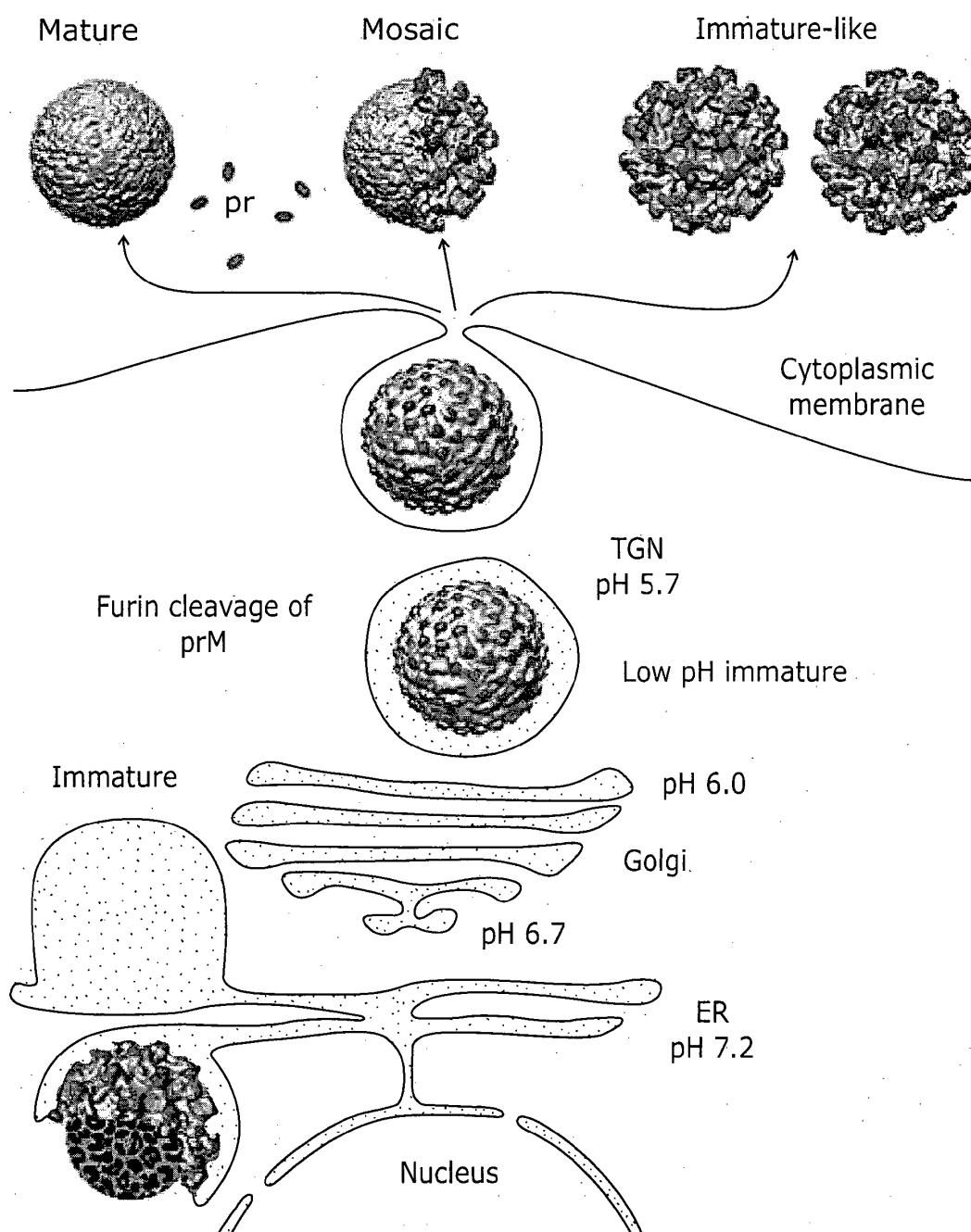


Figure 8

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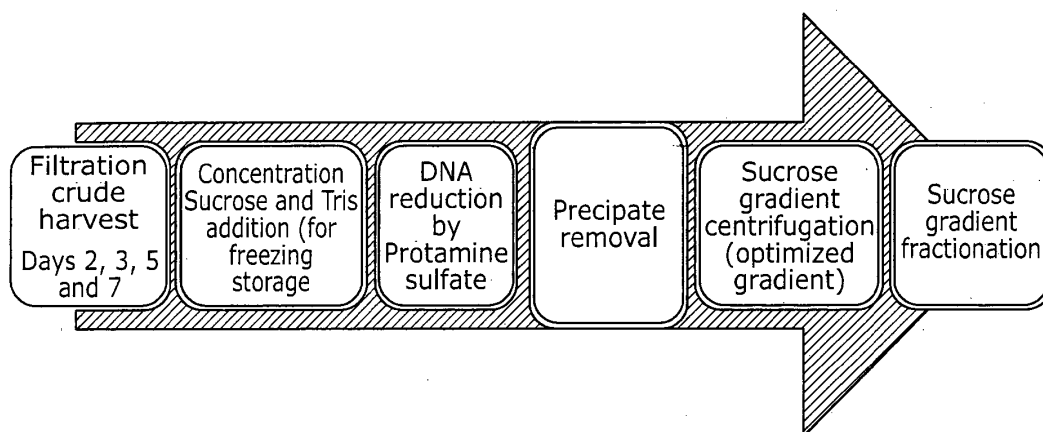


Figure 9A

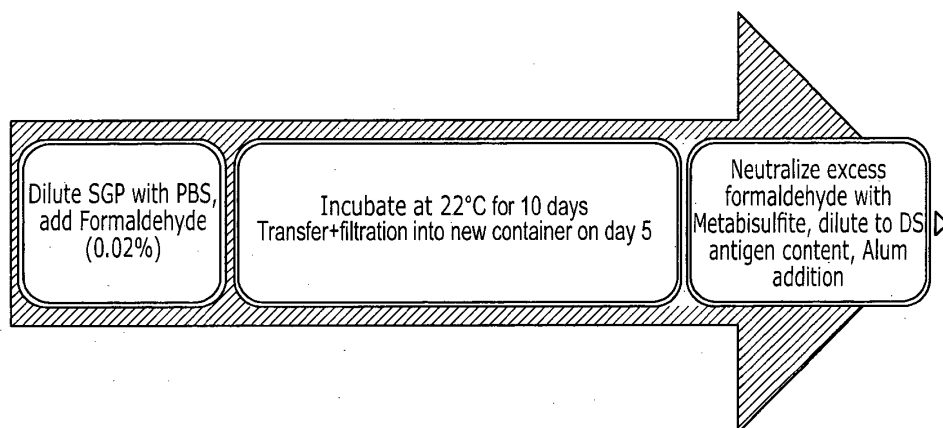


Figure 9B

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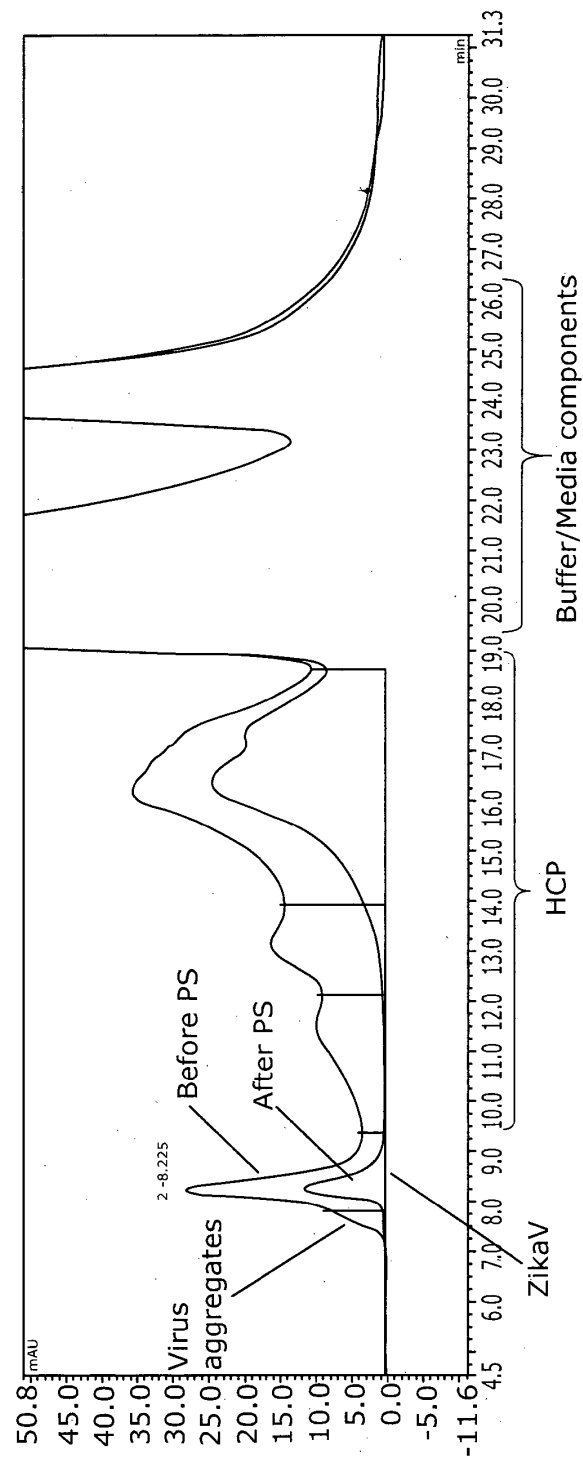
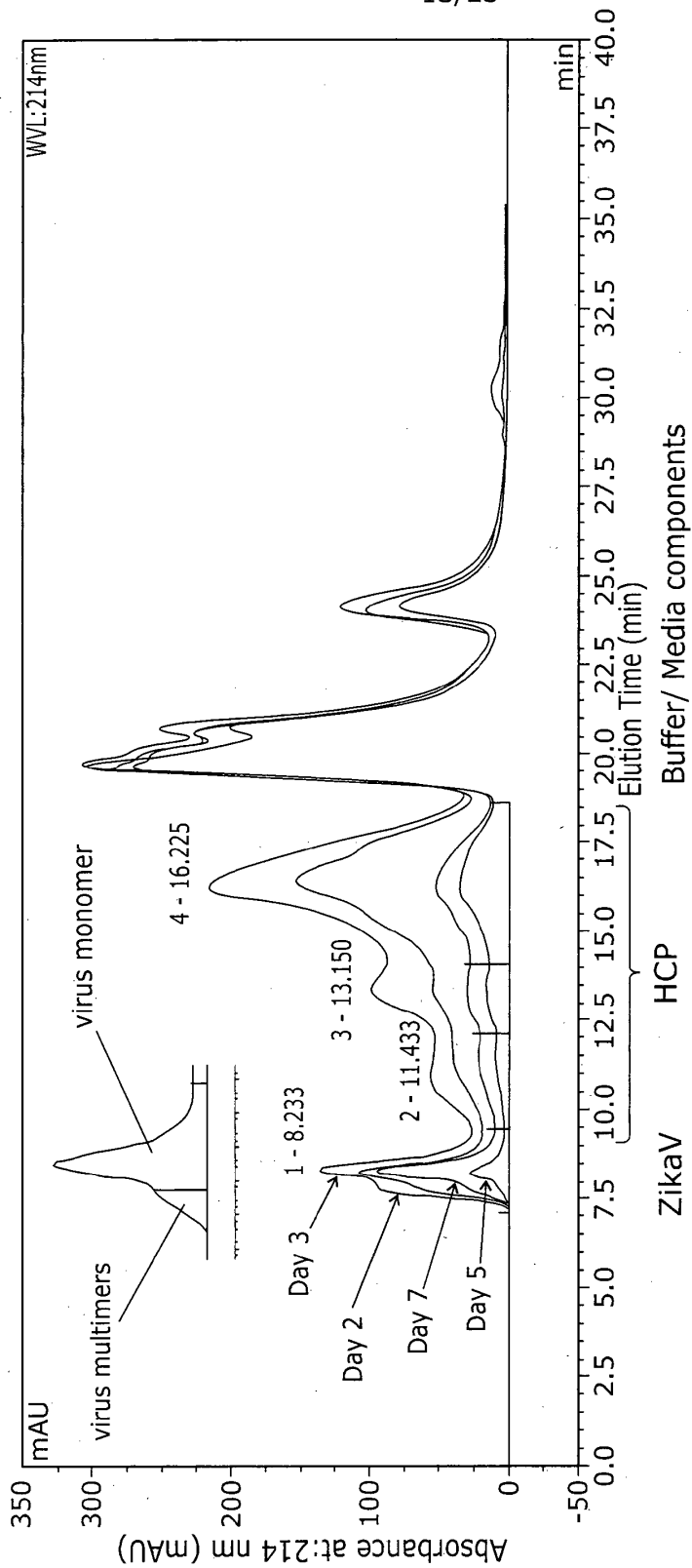
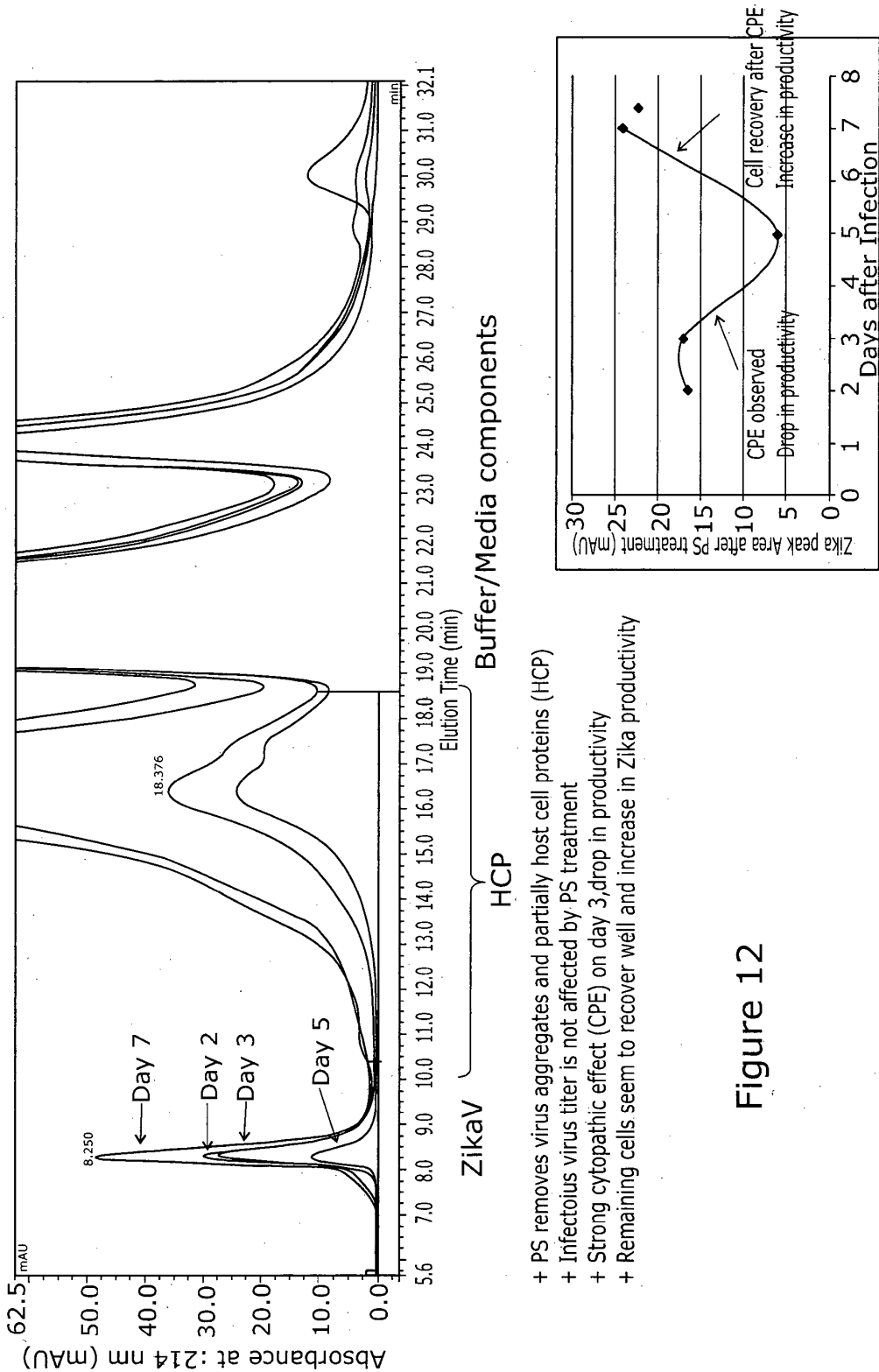


Figure 10



- + Similar virus concentration in harvests Day 2, Day3, Day 7; lower virus concentration in harvest Day 5
- + Day 2 and Day 3 harvests contained more HCP than Days 5/7 (correlates with observed CPE)
- + Minor amount of virus multimers observed

Figure 11



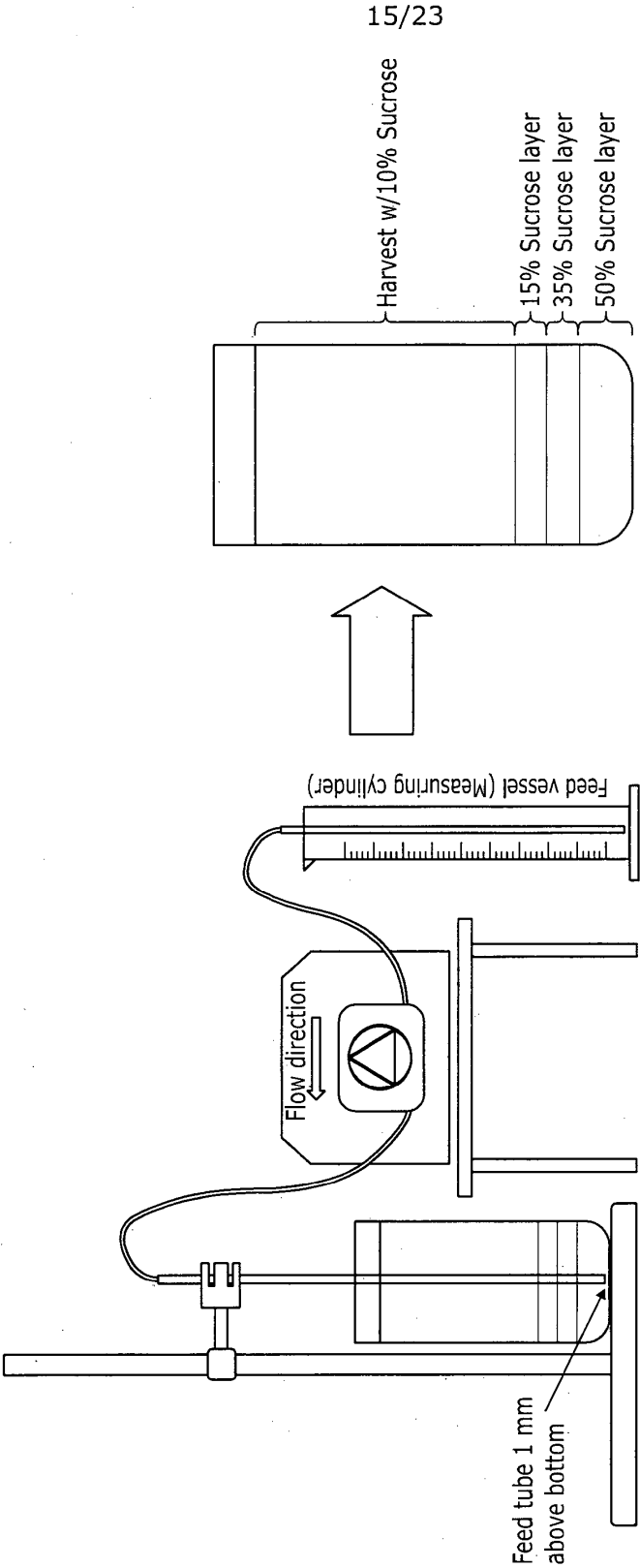


Figure 13

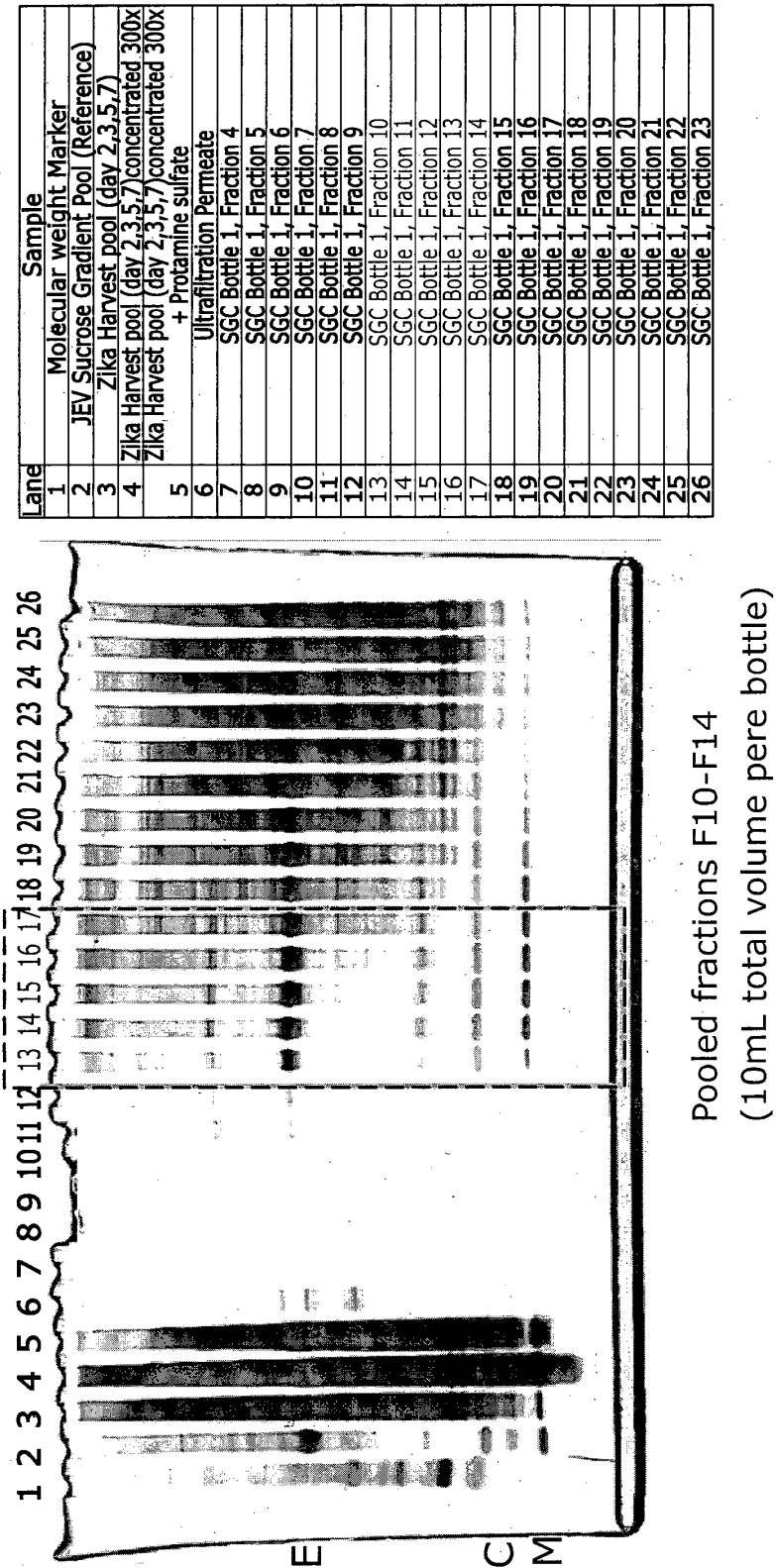


Figure 14

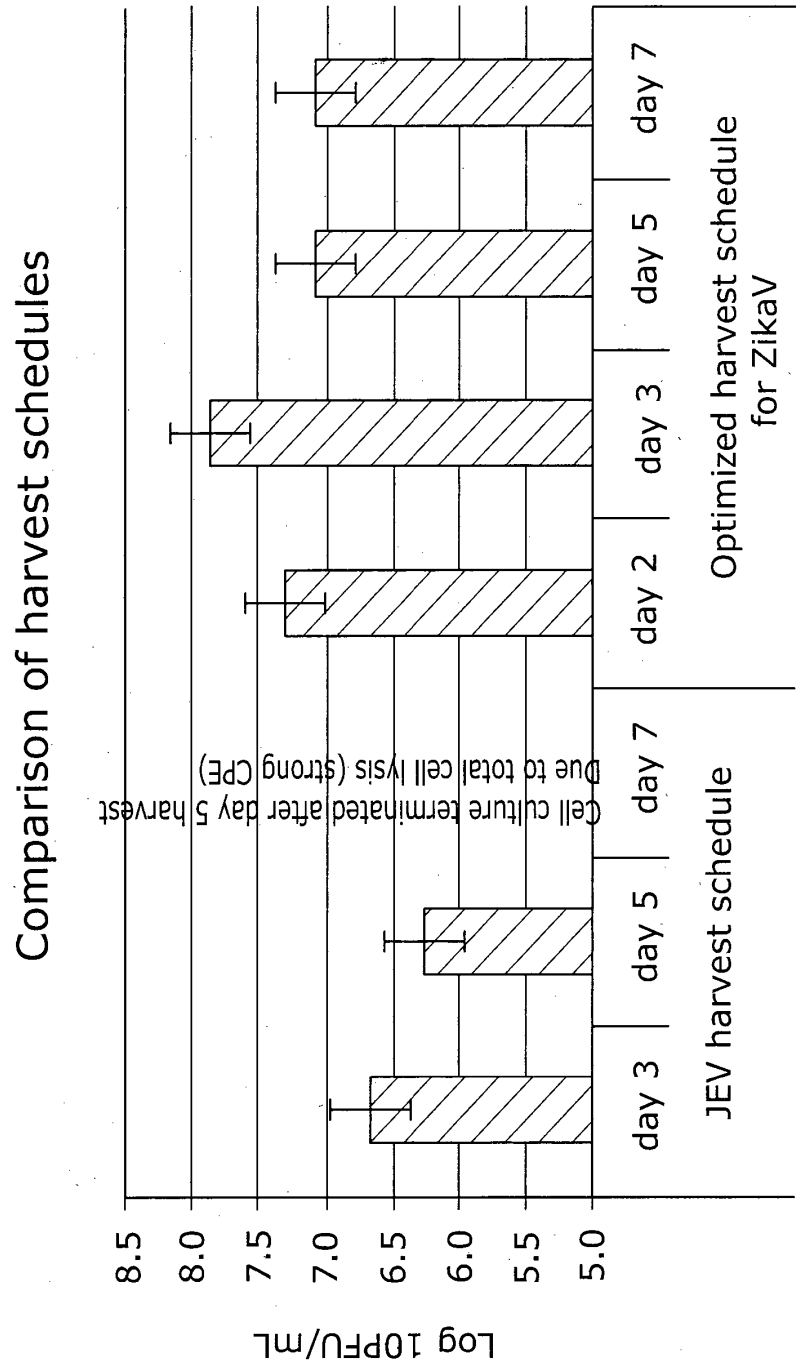


Figure 15

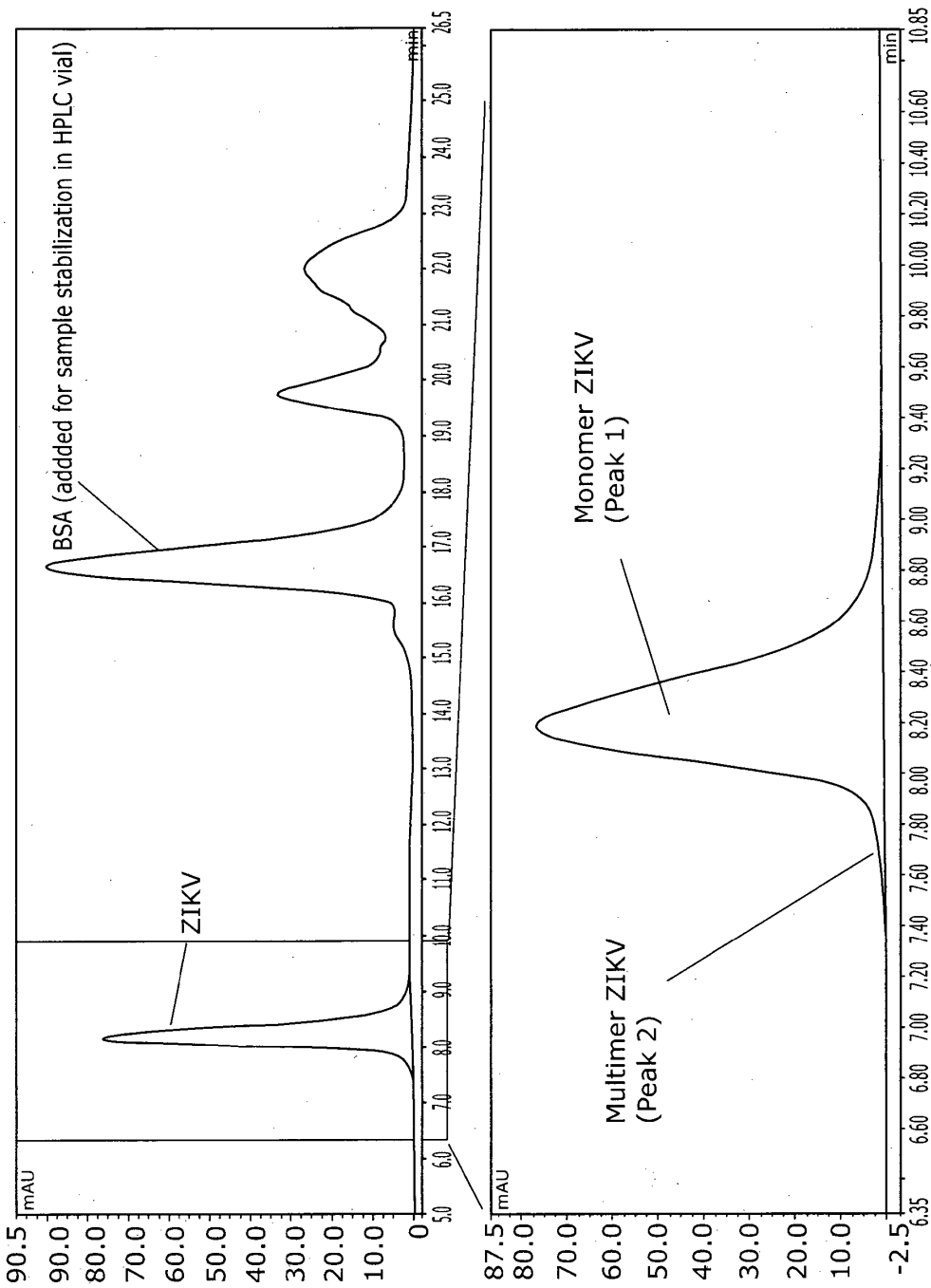


Figure 16

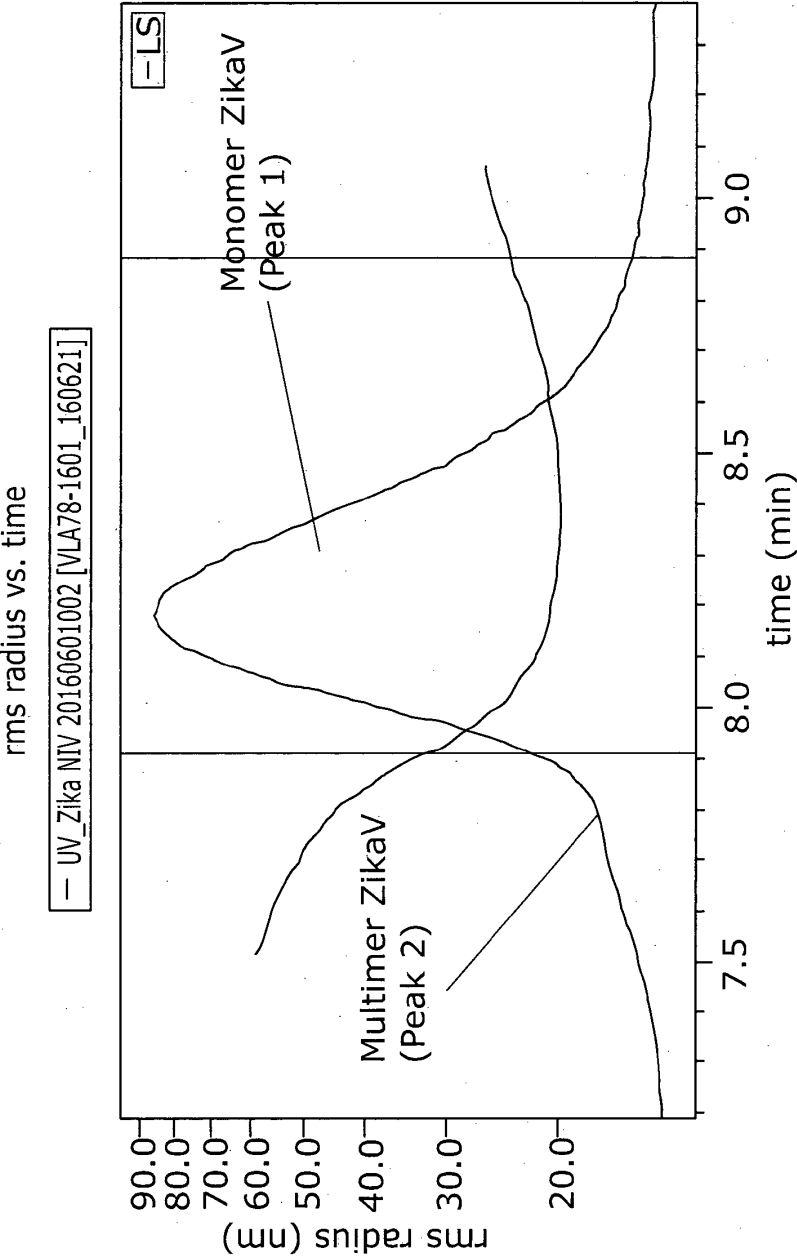


Figure 17

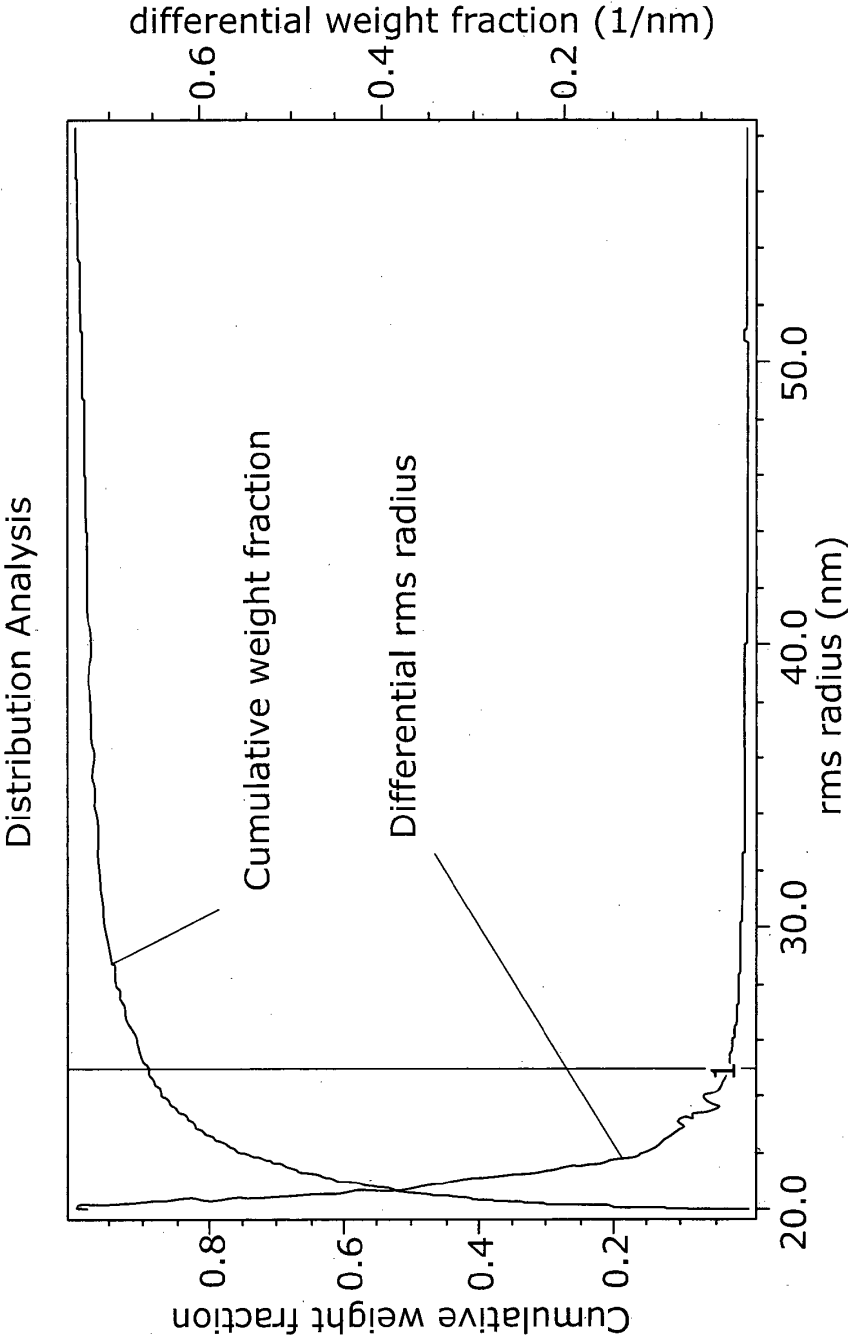


Figure 18

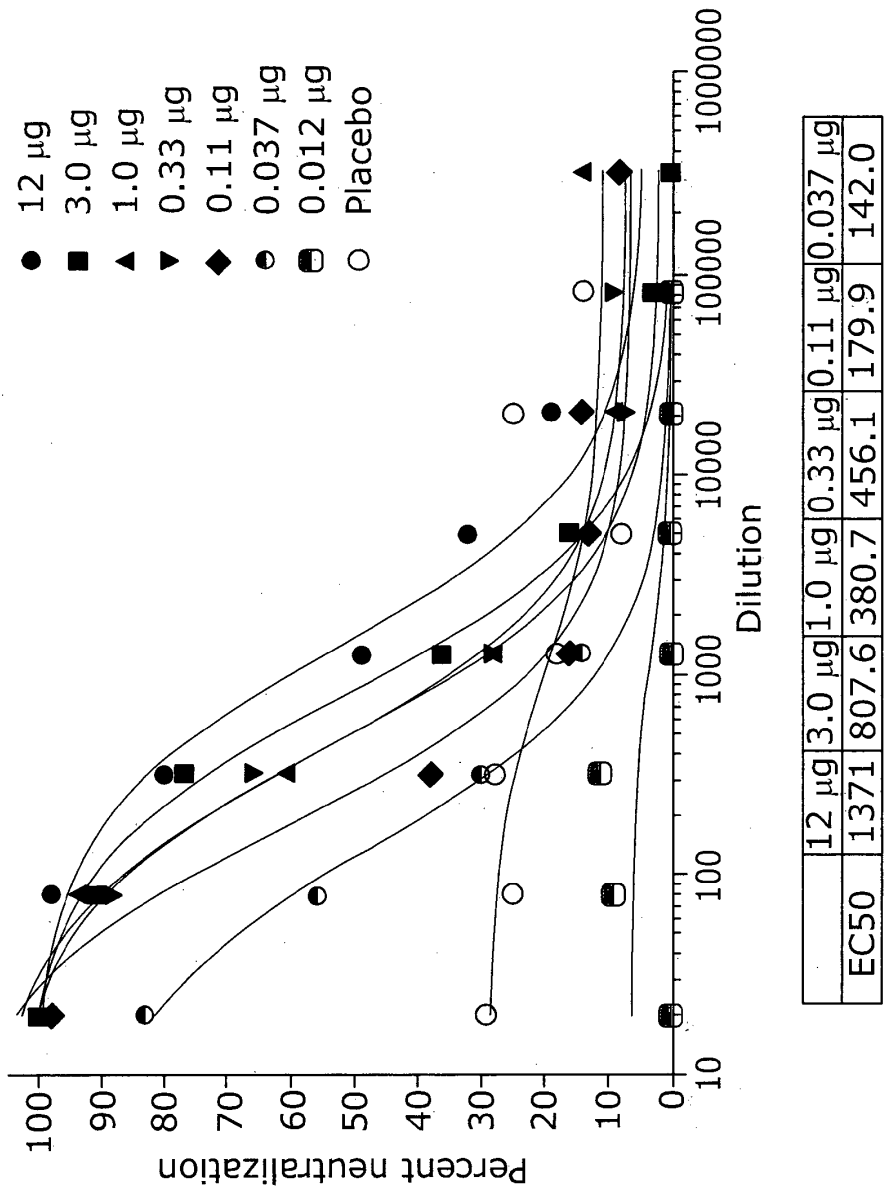


Figure 19

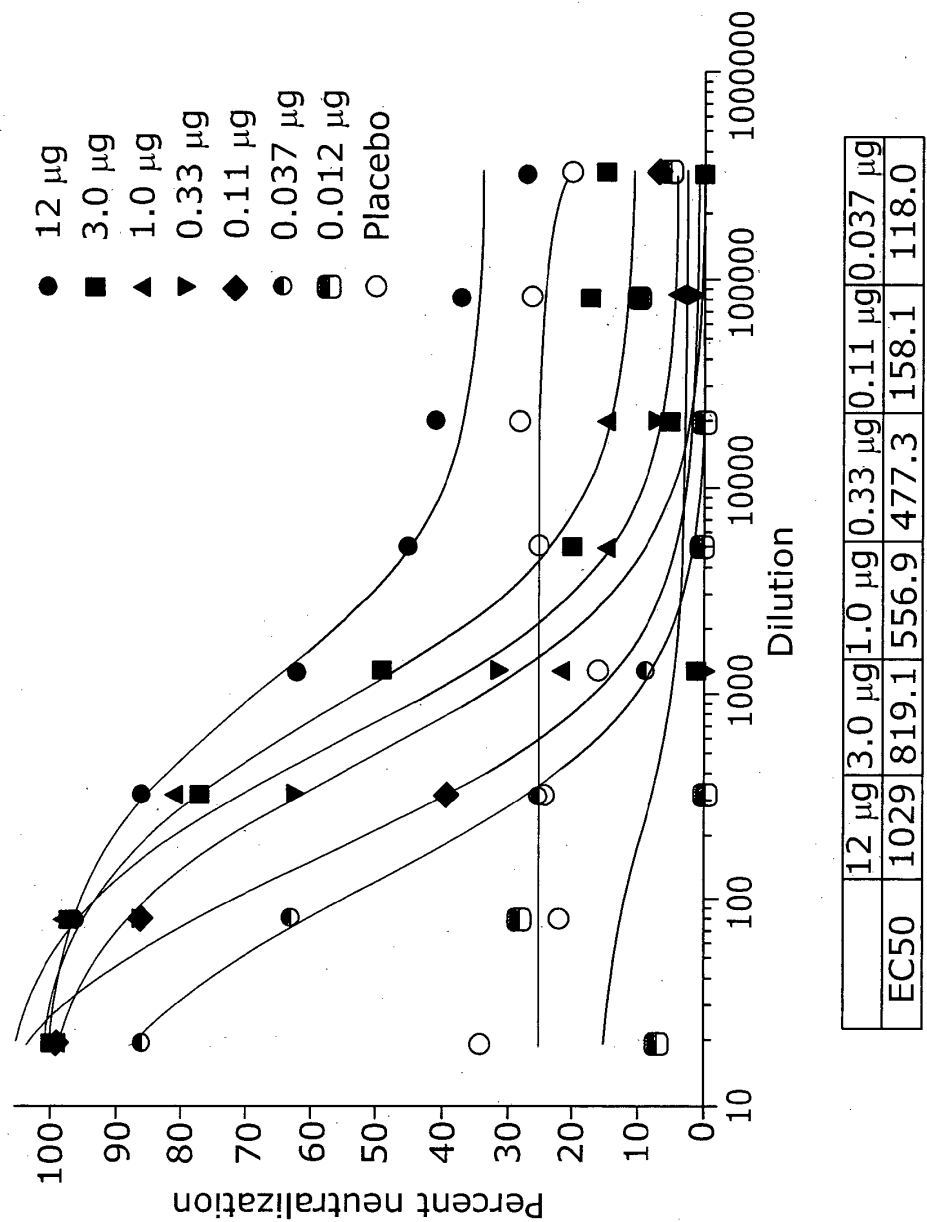


Figure 20

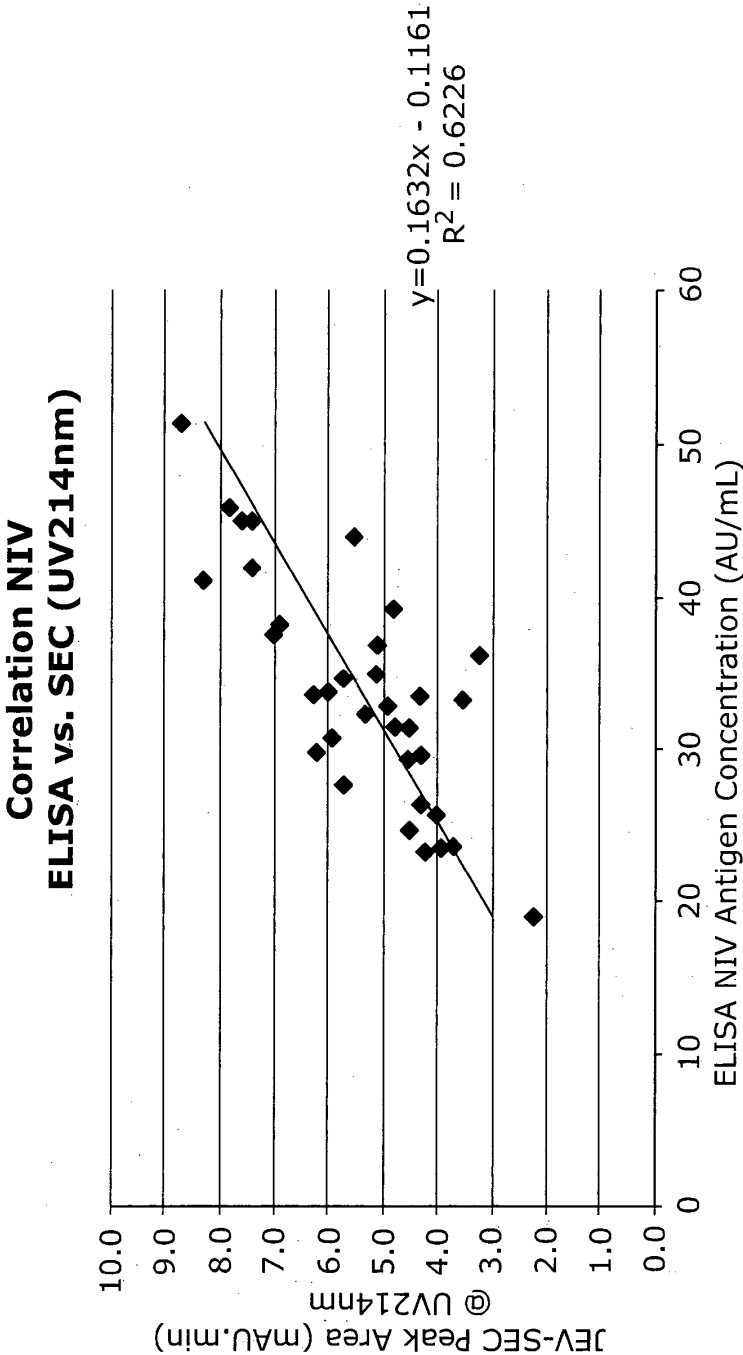


Figure 21