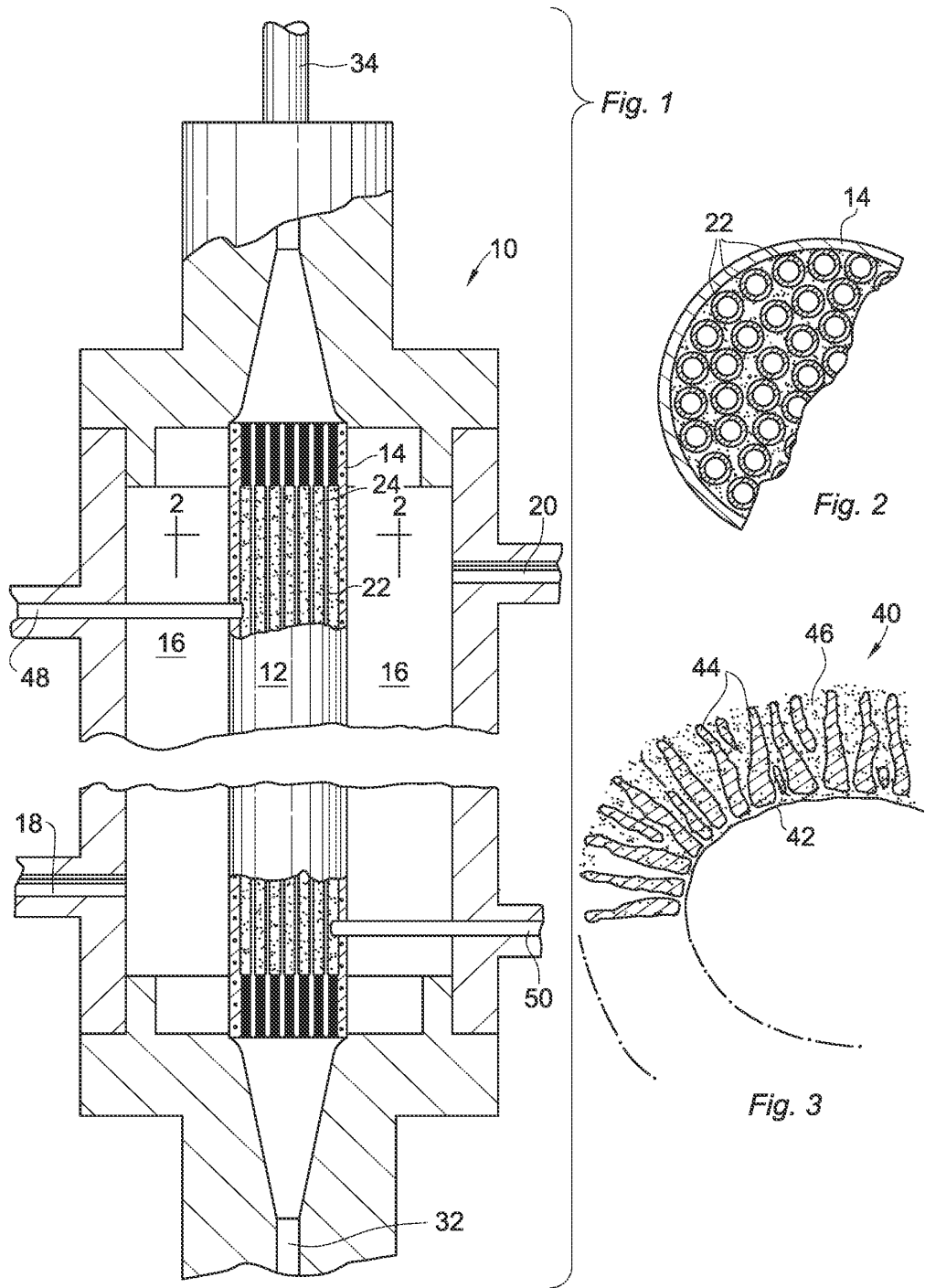




FIGs. 1-3

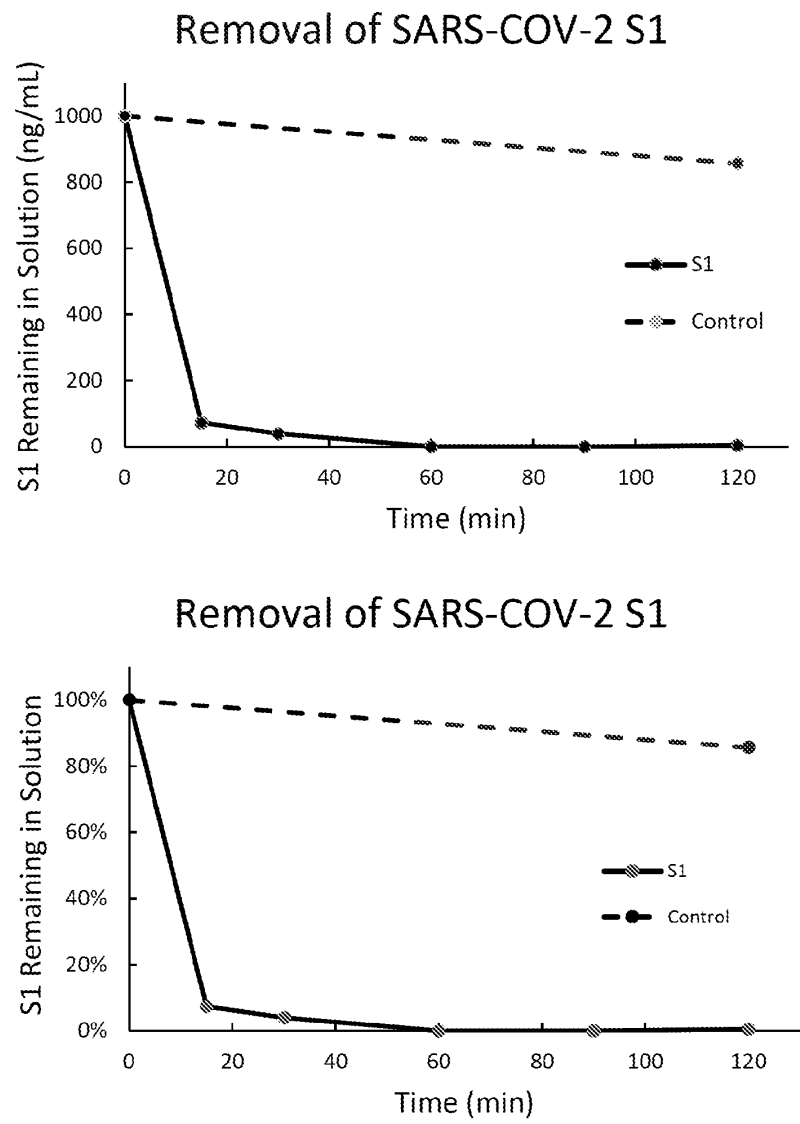
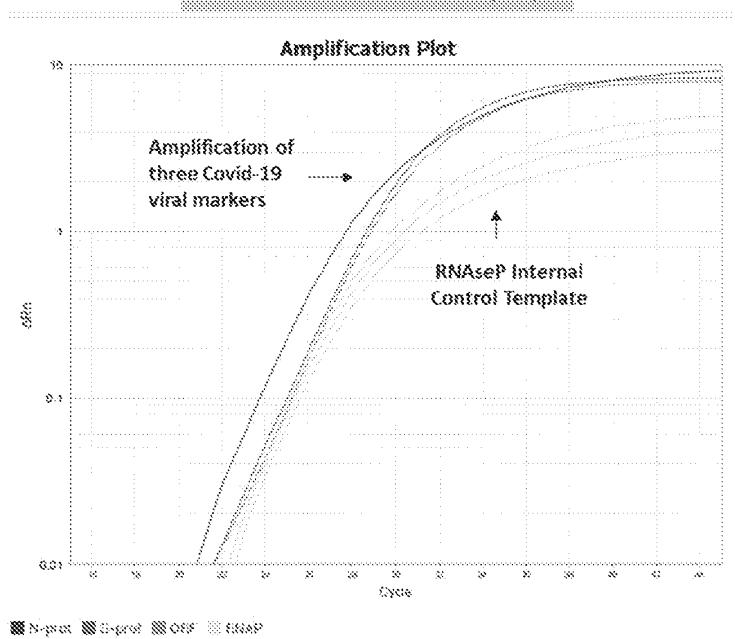


FIG. 4

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nCov Positive Control (kit)



Patient Plasma

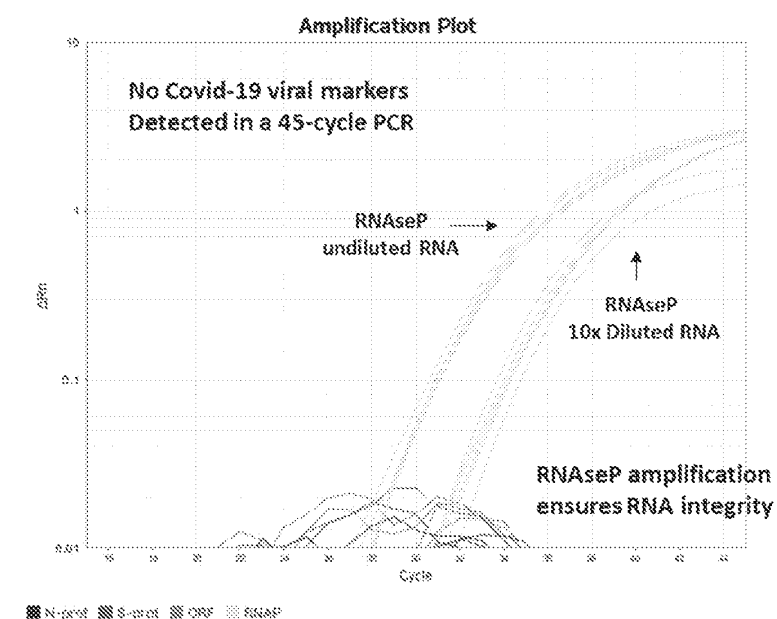
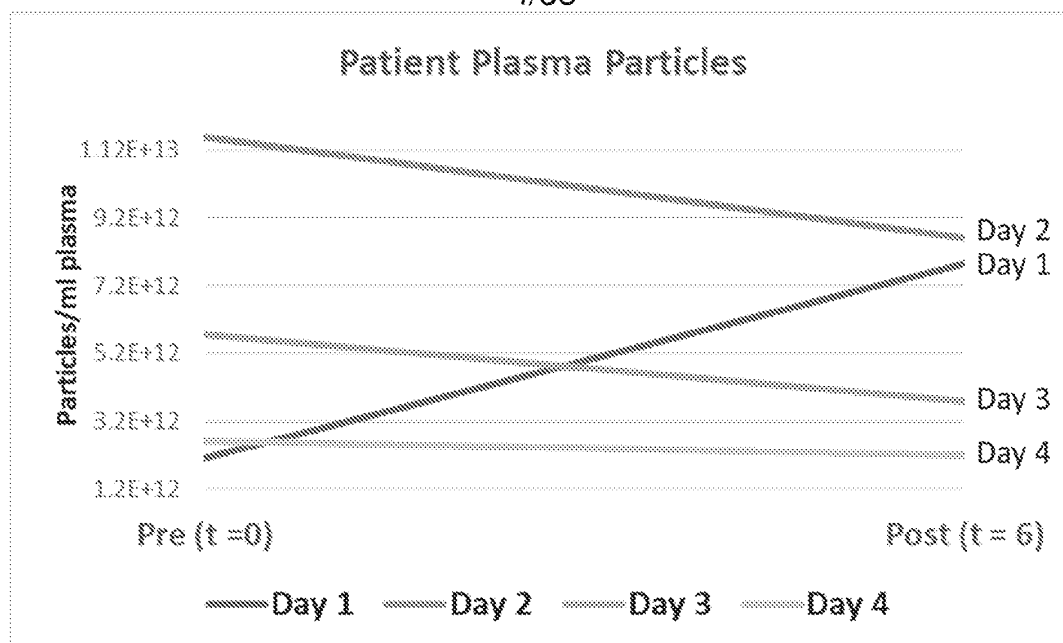


FIG. 5

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Treatment	Change in nanoparticle content
Day 1	+373%
Day 2	-26%
Day 3	-34%
Day 4	-15%

FIG. 6A

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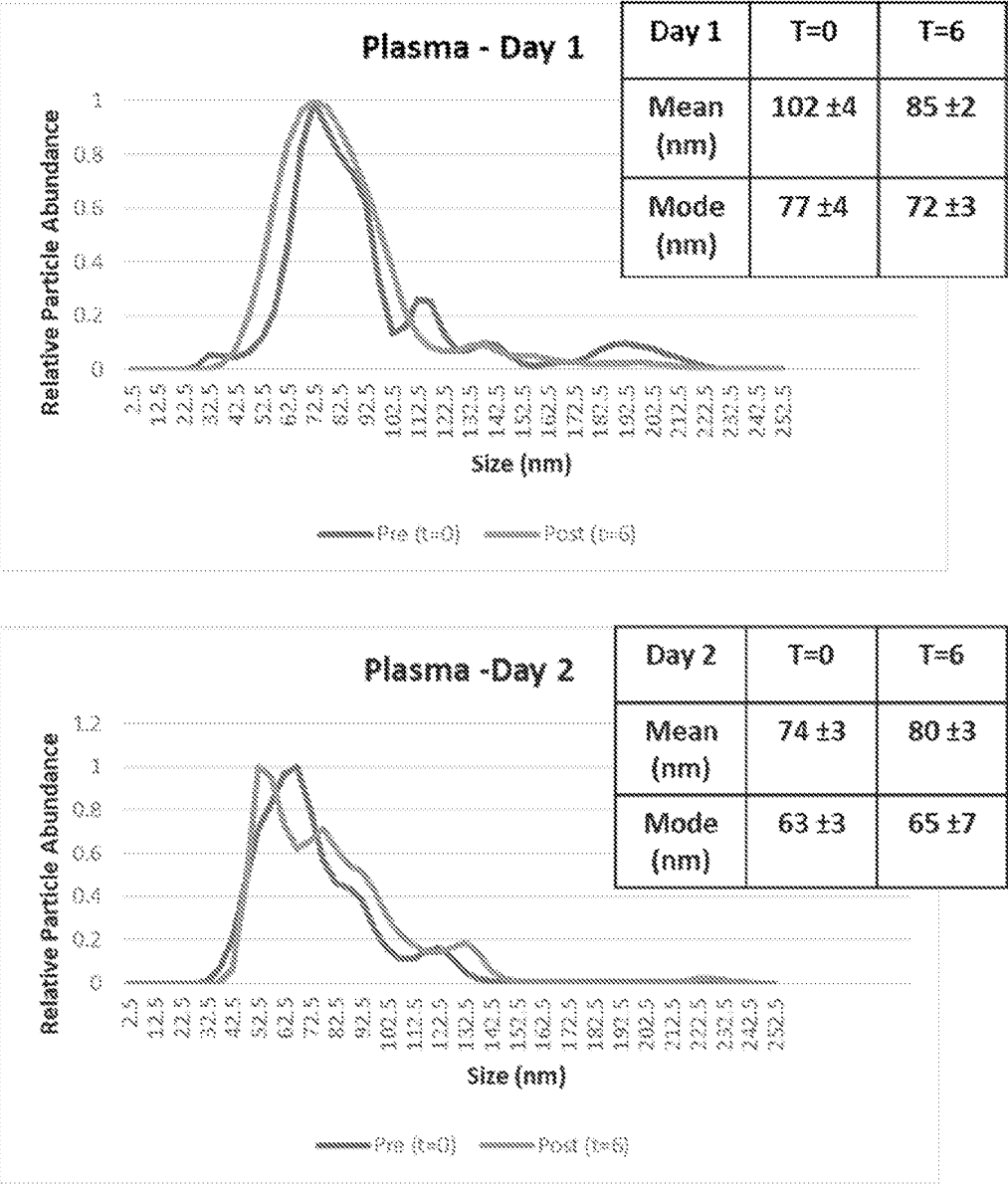


FIG. 6B

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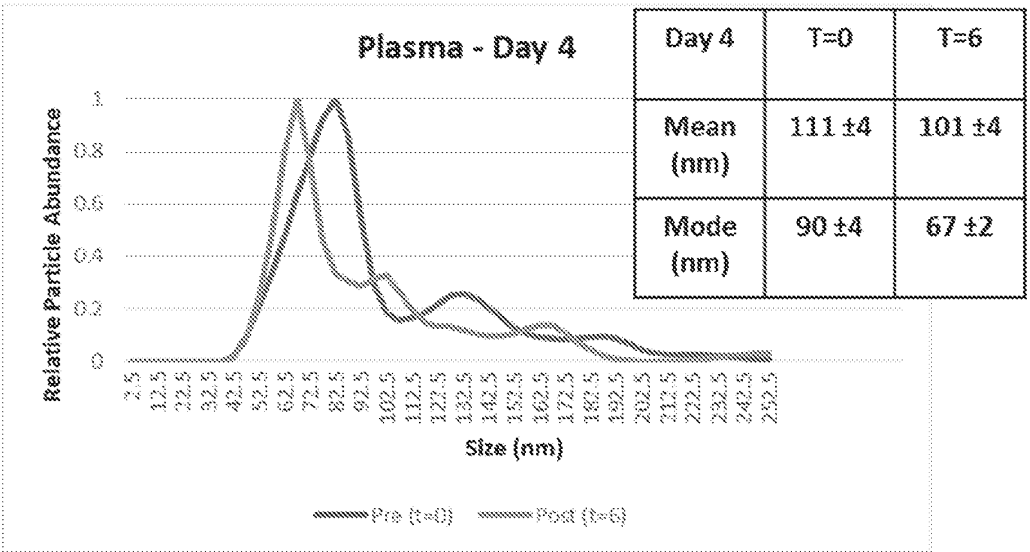
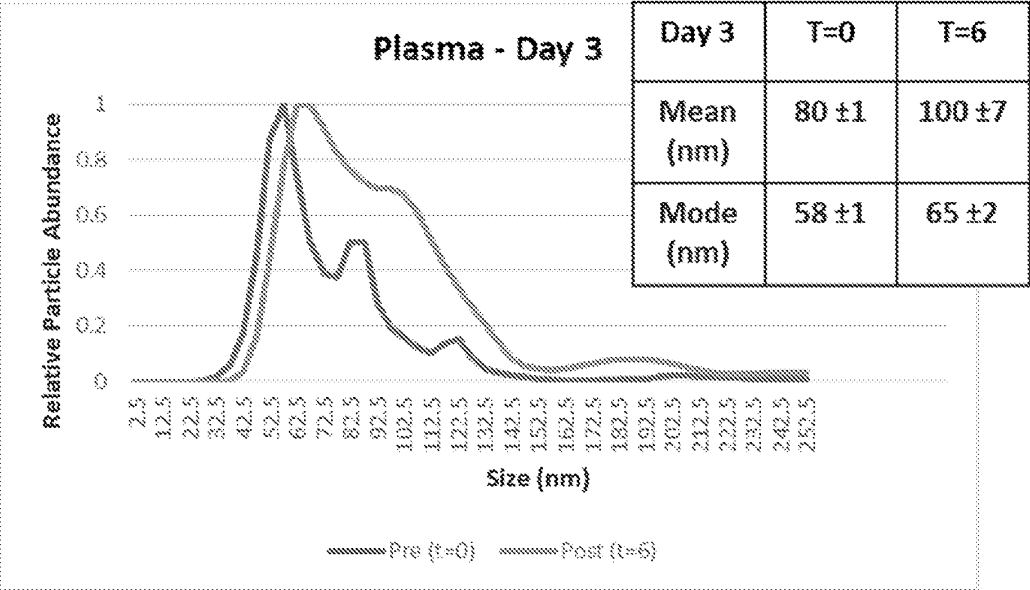
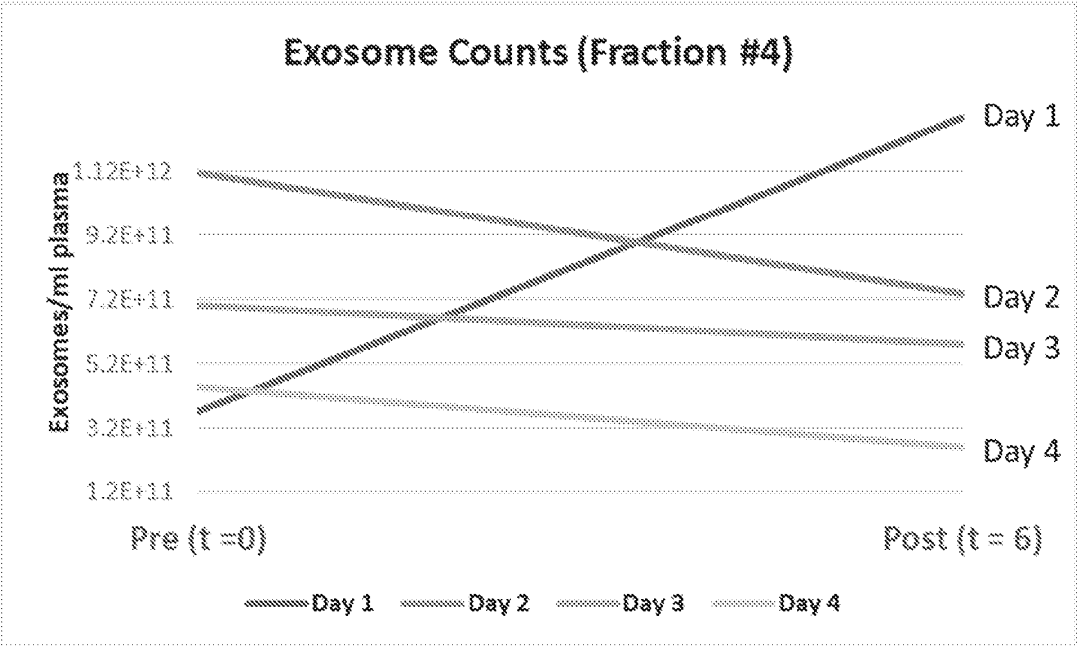


FIG. 6B cont.



Treatment	Change in Exosome Quantities
Day 1	+346%
Day 2	-33.6%
Day 3	-17.1%
Day 4	-41.6%

FIG. 7A

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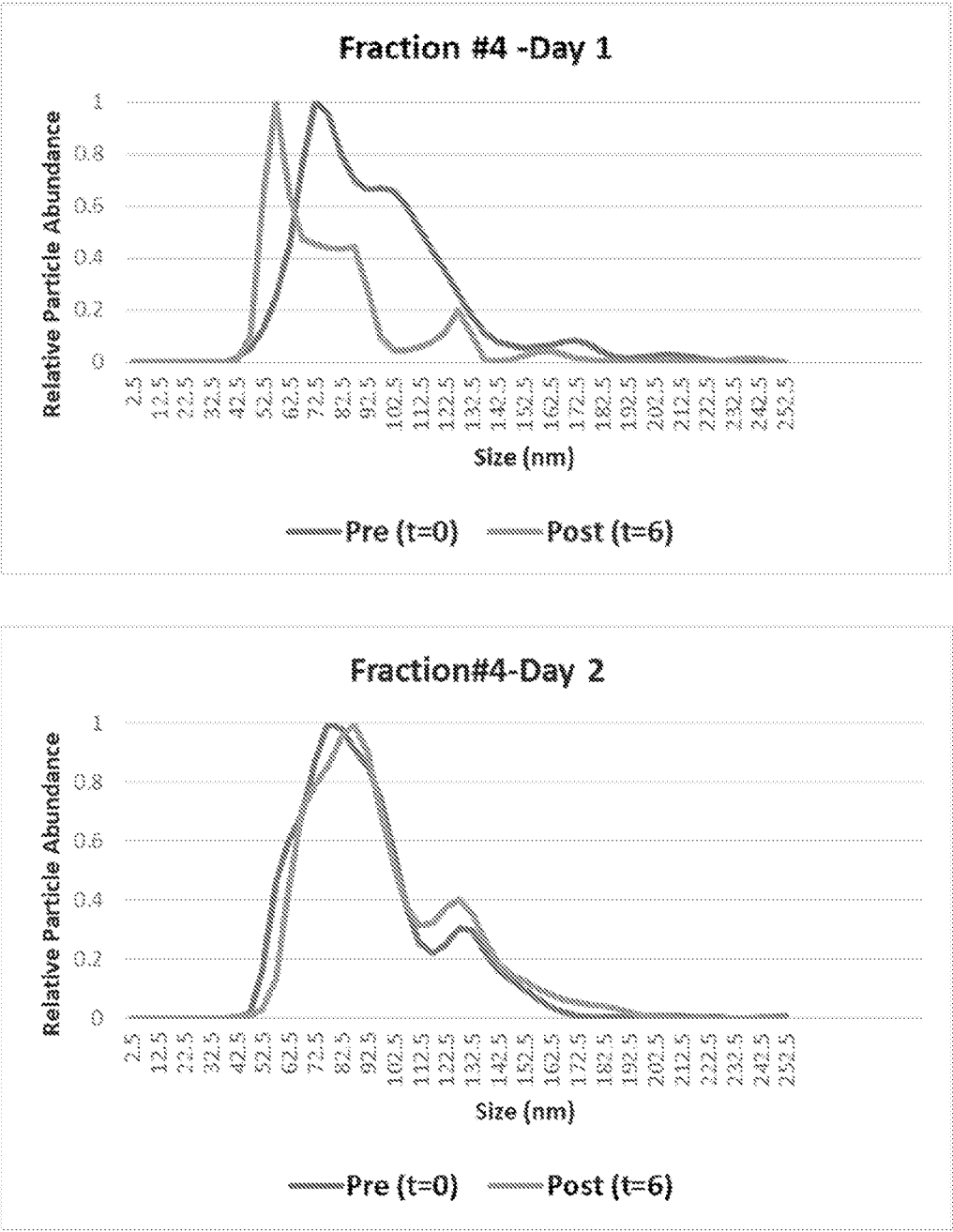


FIG. 7B

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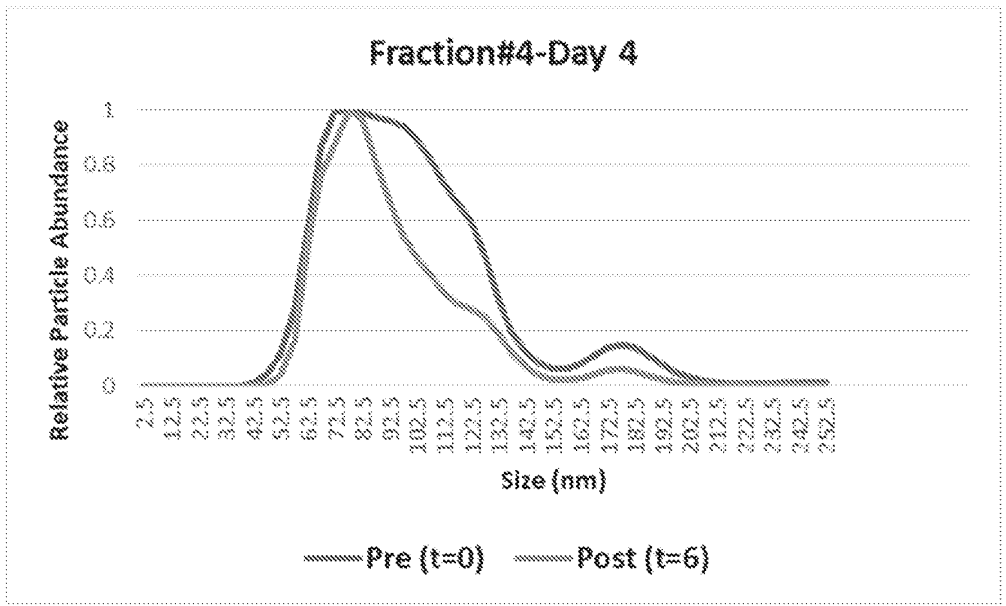
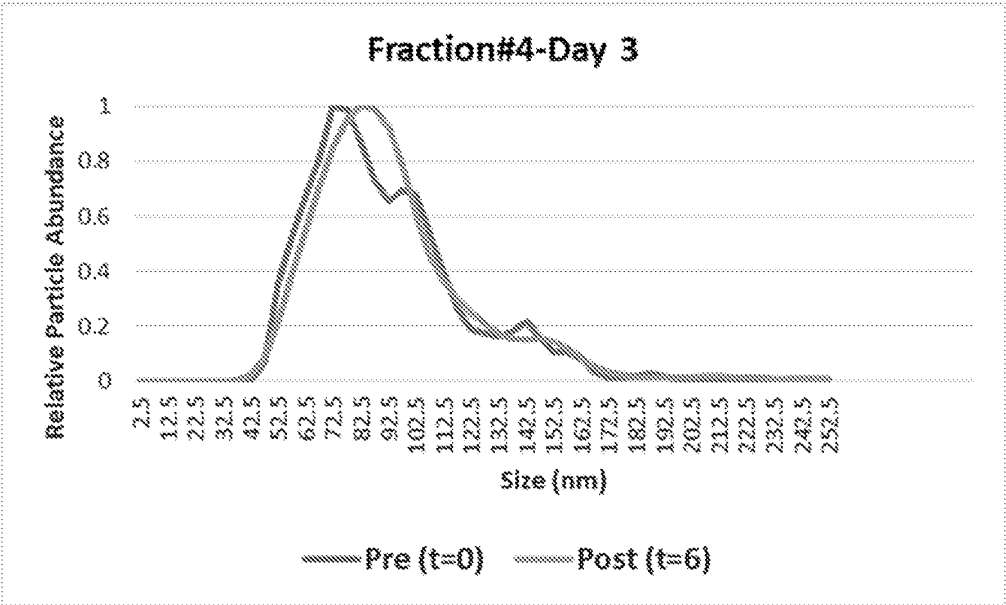


FIG. 7B cont.

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Pre-treatment

T = 0	Mean	Mode
Day 1	101 $\pm$ 5	93 $\pm$ 3
Day 2	94 $\pm$ 2	84 $\pm$ 2
Day 3	92 $\pm$ 2	78 $\pm$ 4
Day 4	102 $\pm$ 2	86 $\pm$ 9

Post-treatment

T = 0	Mean	Mode
Day 1	83 $\pm$ 2	69 $\pm$ 3
Day 2	99 $\pm$ 5	83 $\pm$ 4
Day 3	97 $\pm$ 4	87 $\pm$ 5
Day 4	95 $\pm$ 2	76 $\pm$ 5

FIG. 7B cont.

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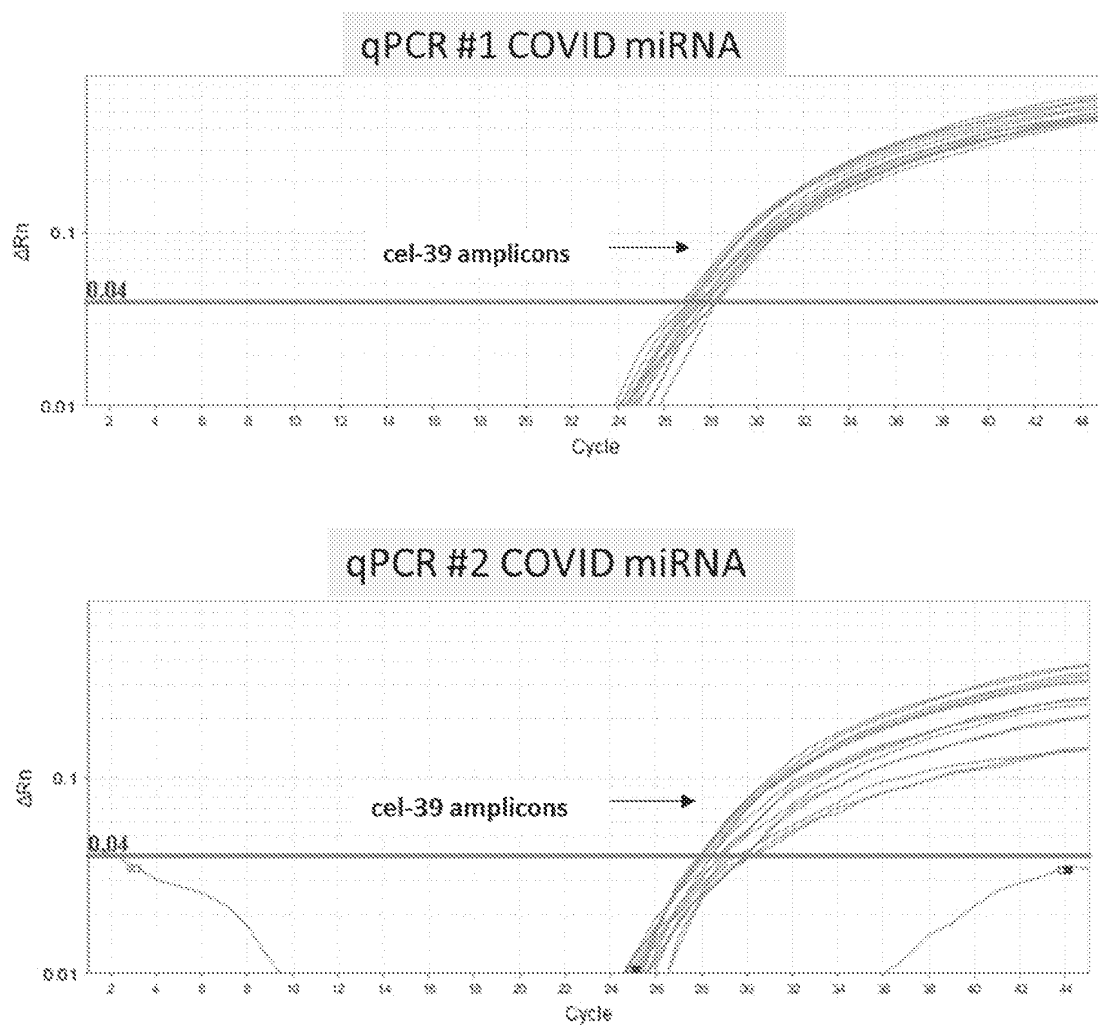


FIG. 8

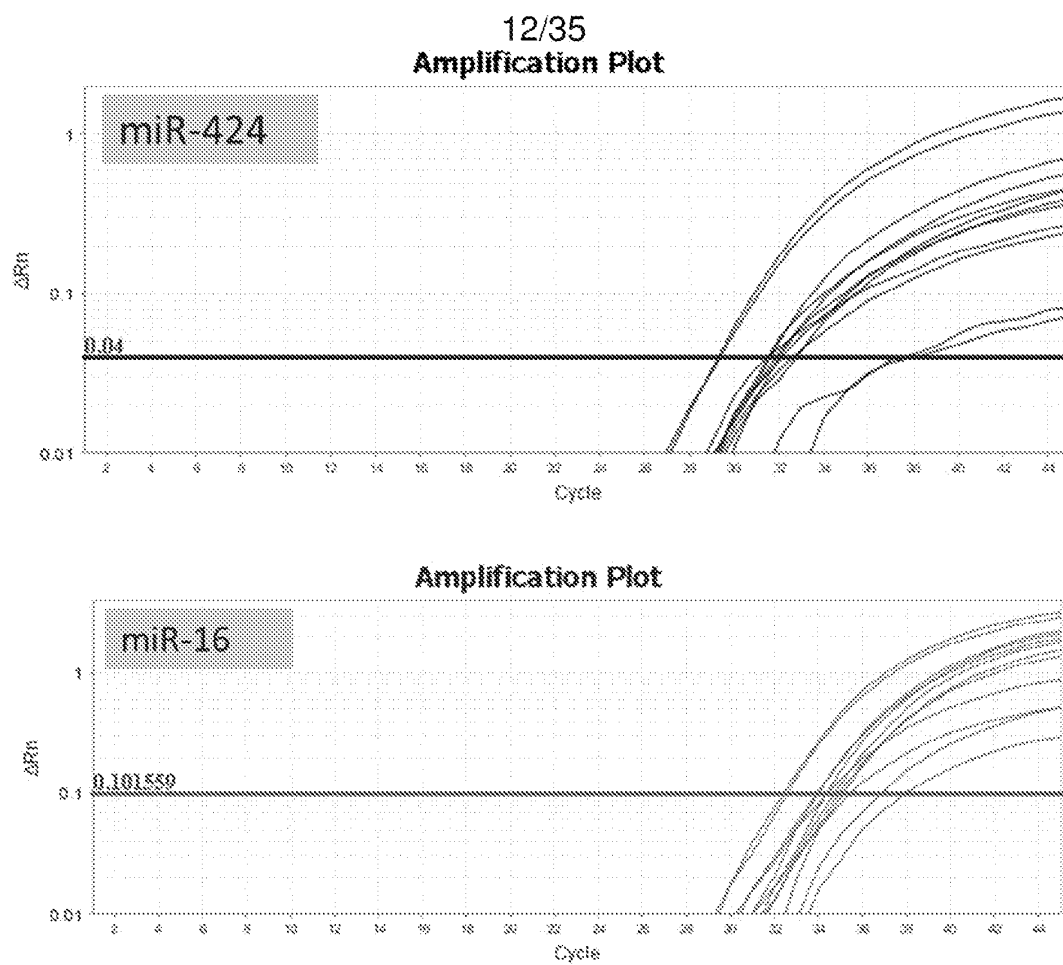


FIG. 9

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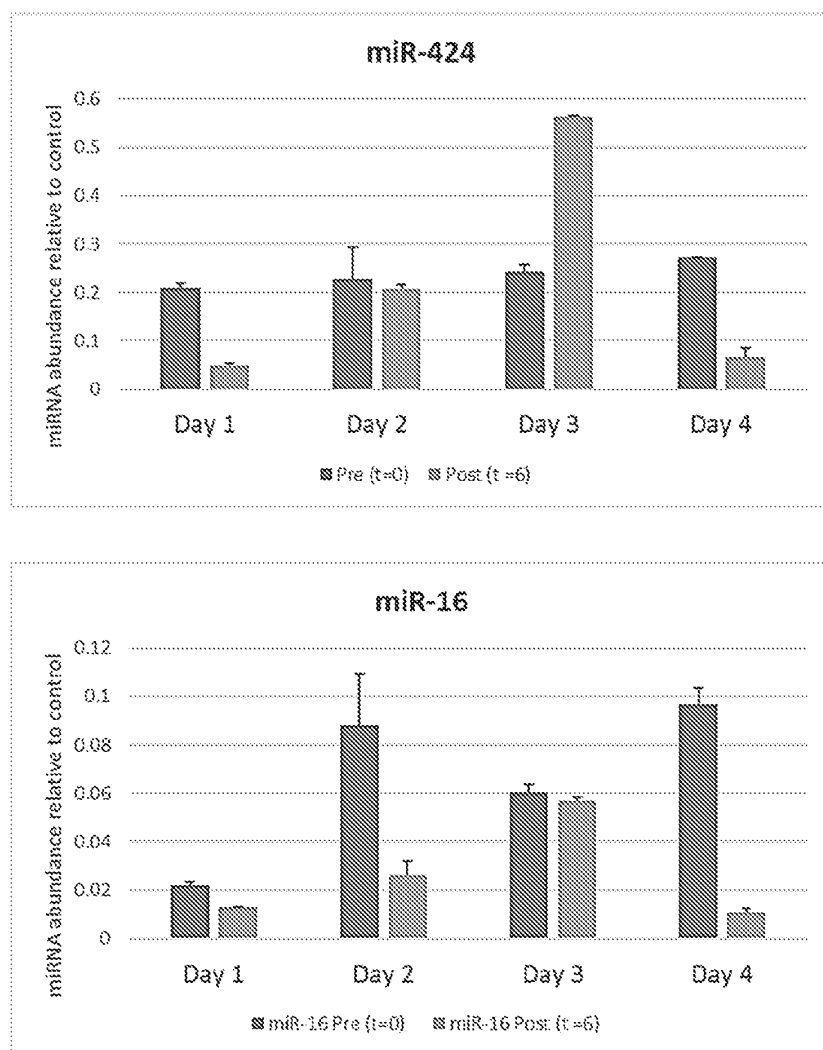


FIG. 10

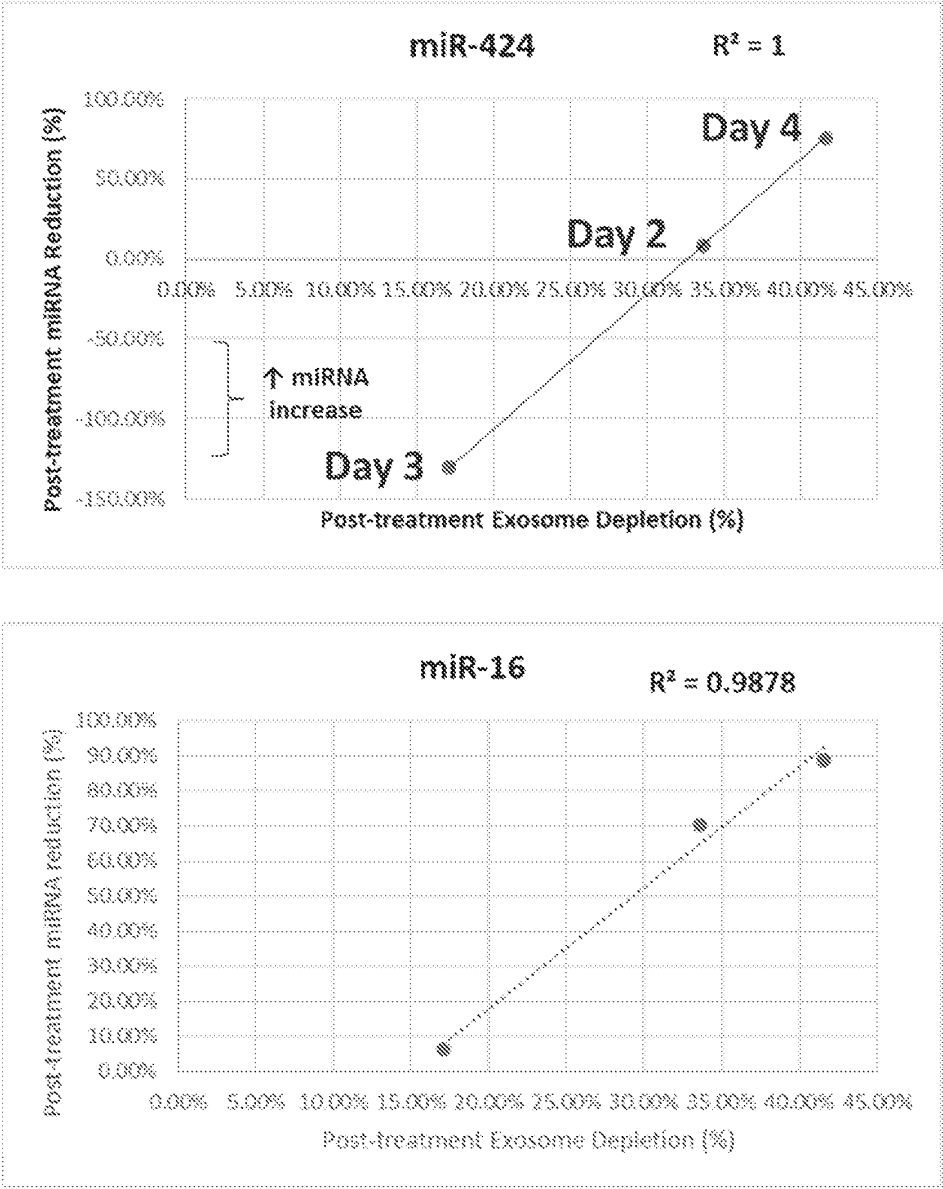


FIG. 11

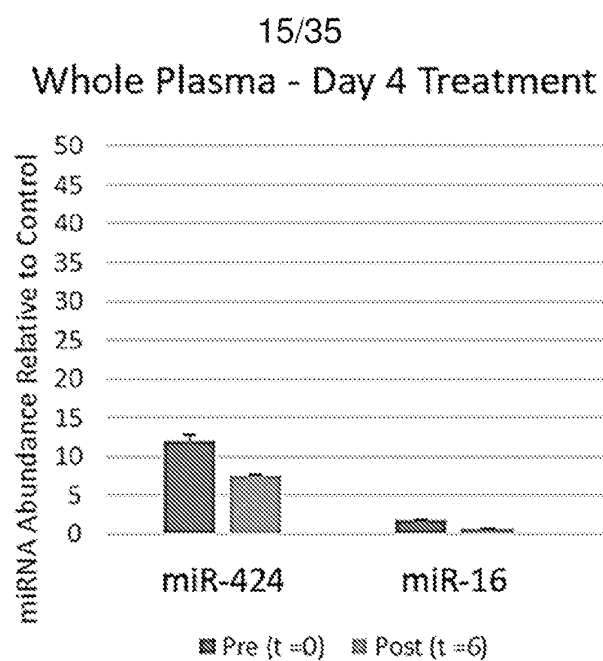


FIG. 12A

miRNA Depletion Day 4 (plasma vs. exosome)

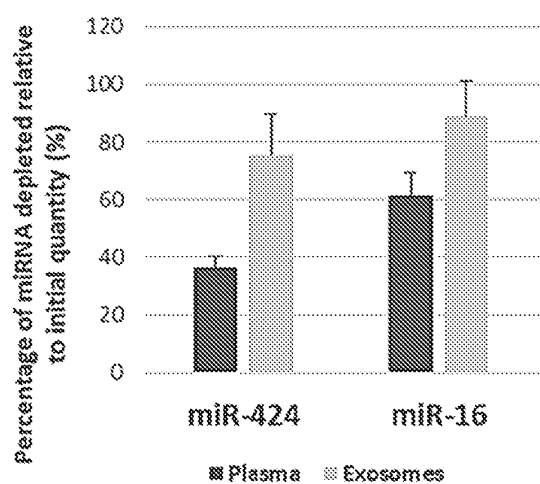


FIG. 12B

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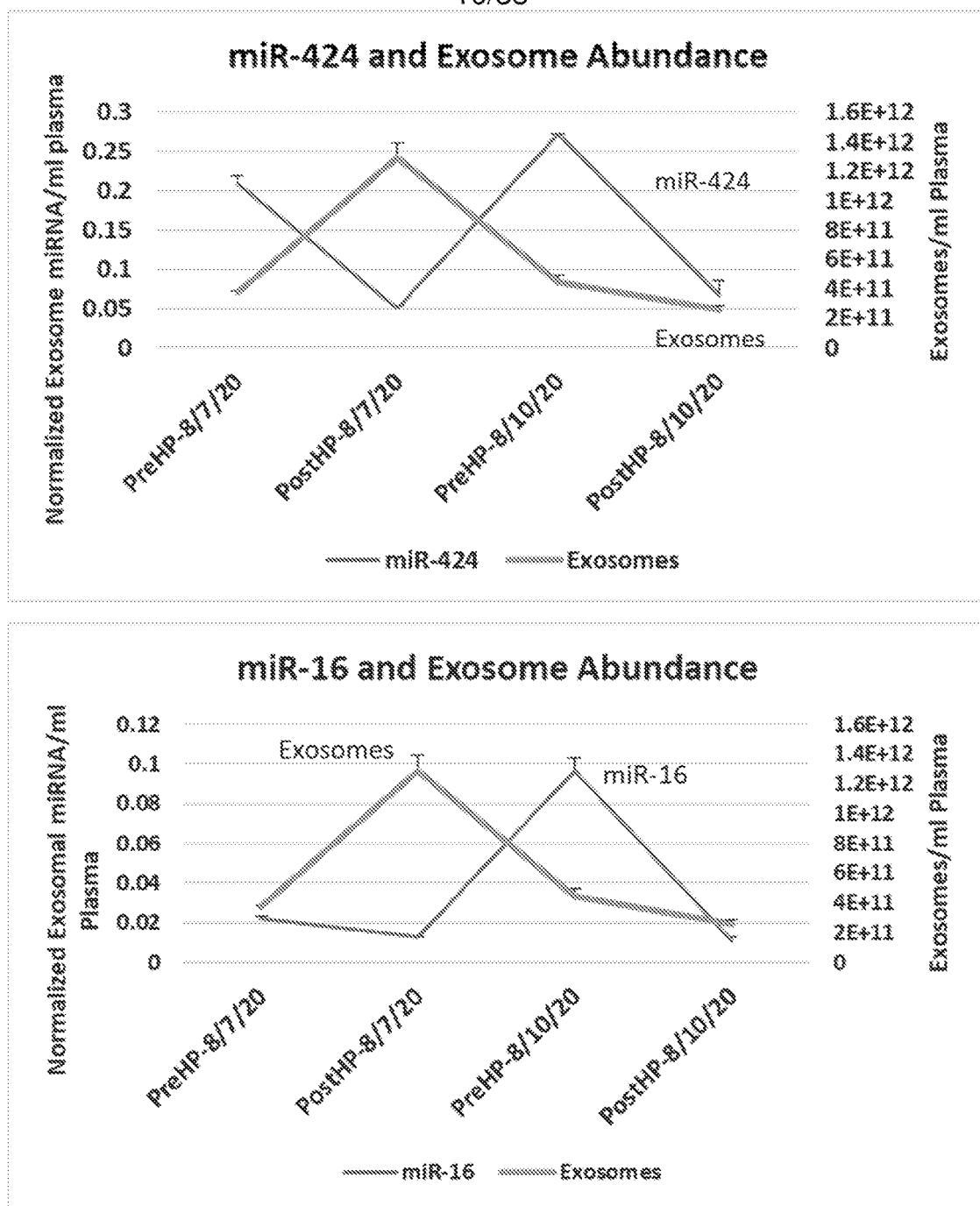


FIG. 13A

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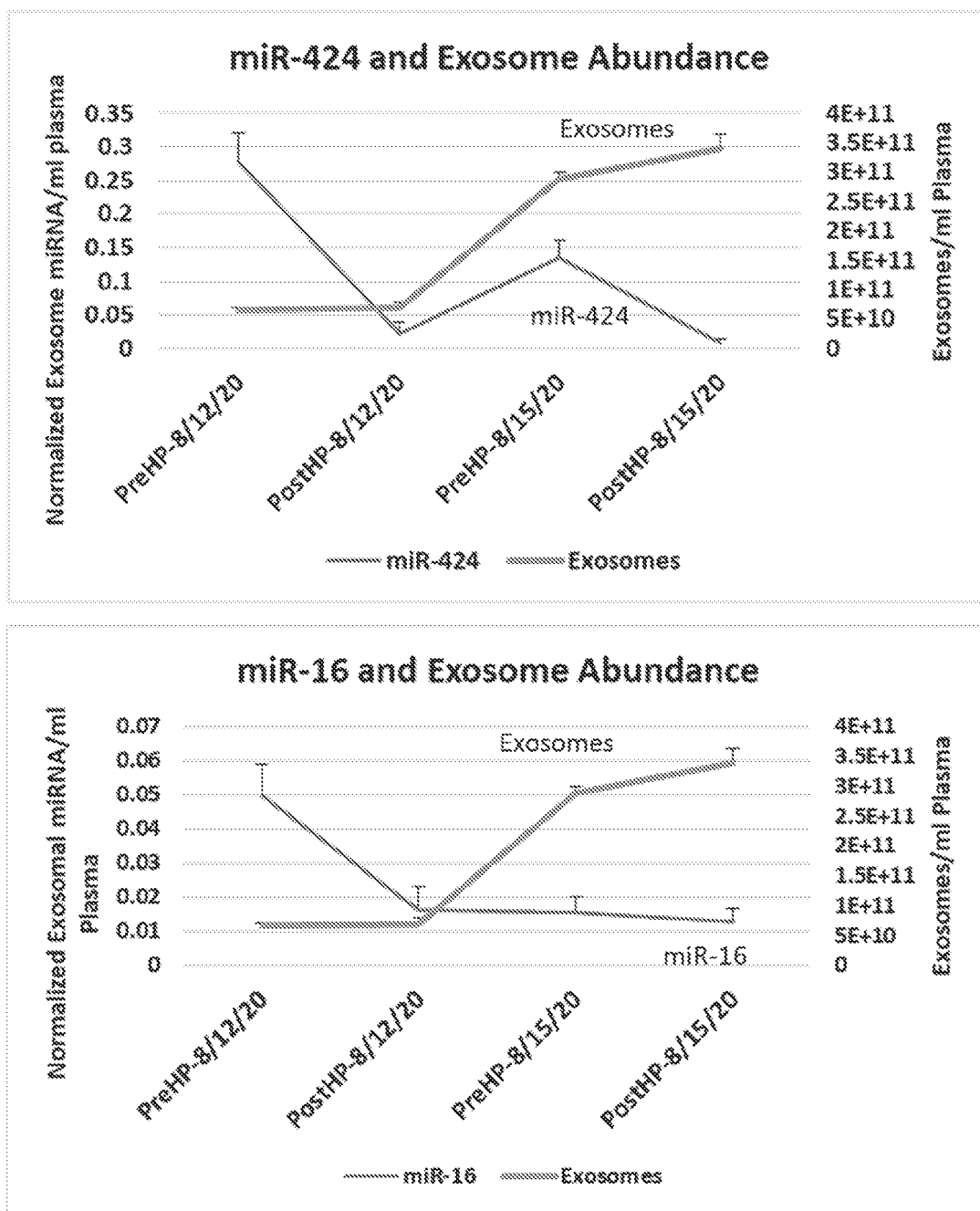


FIG. 13B

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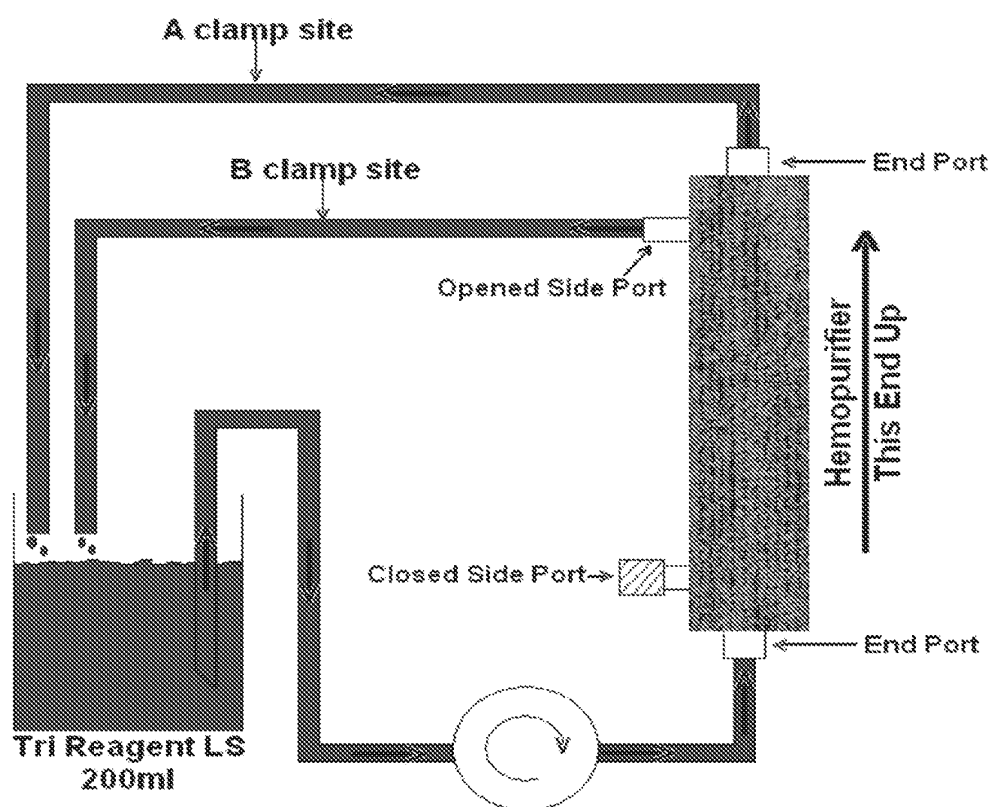


FIG. 14

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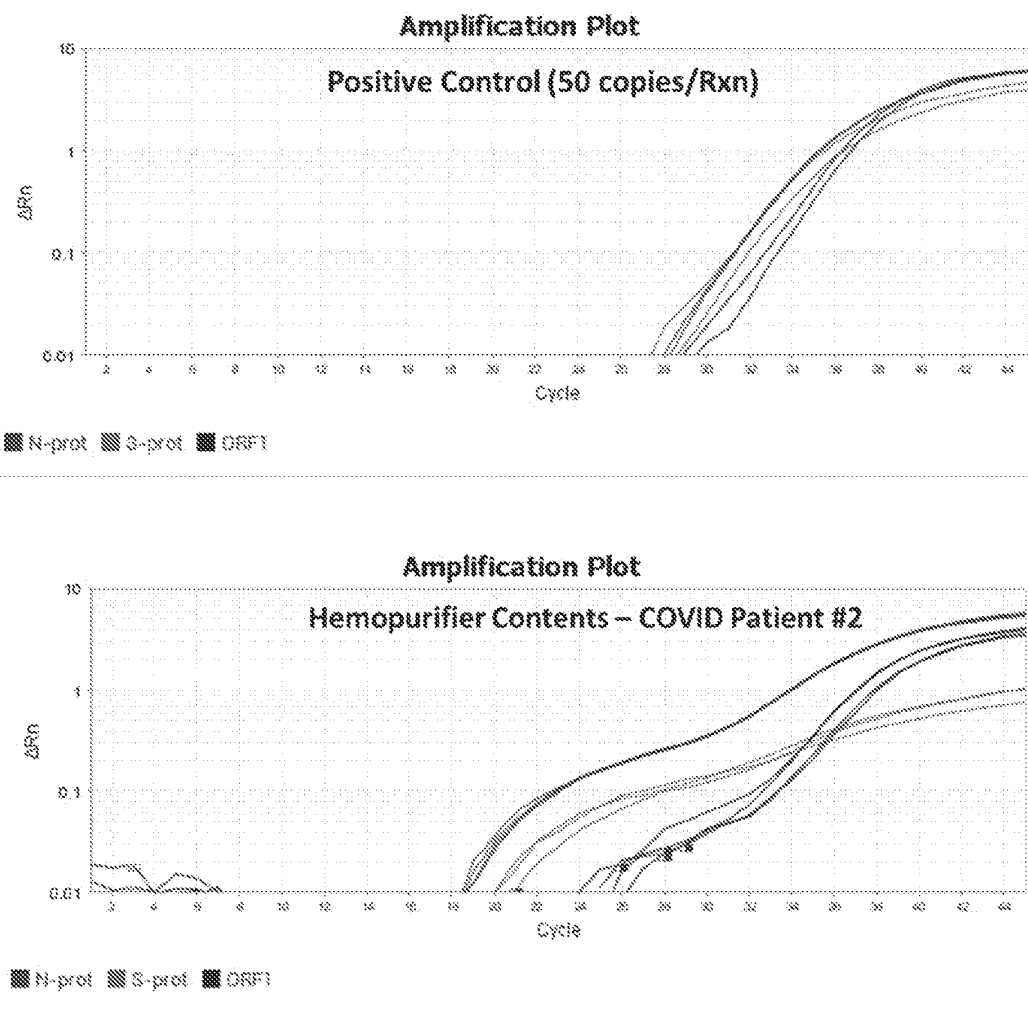


FIG. 15A

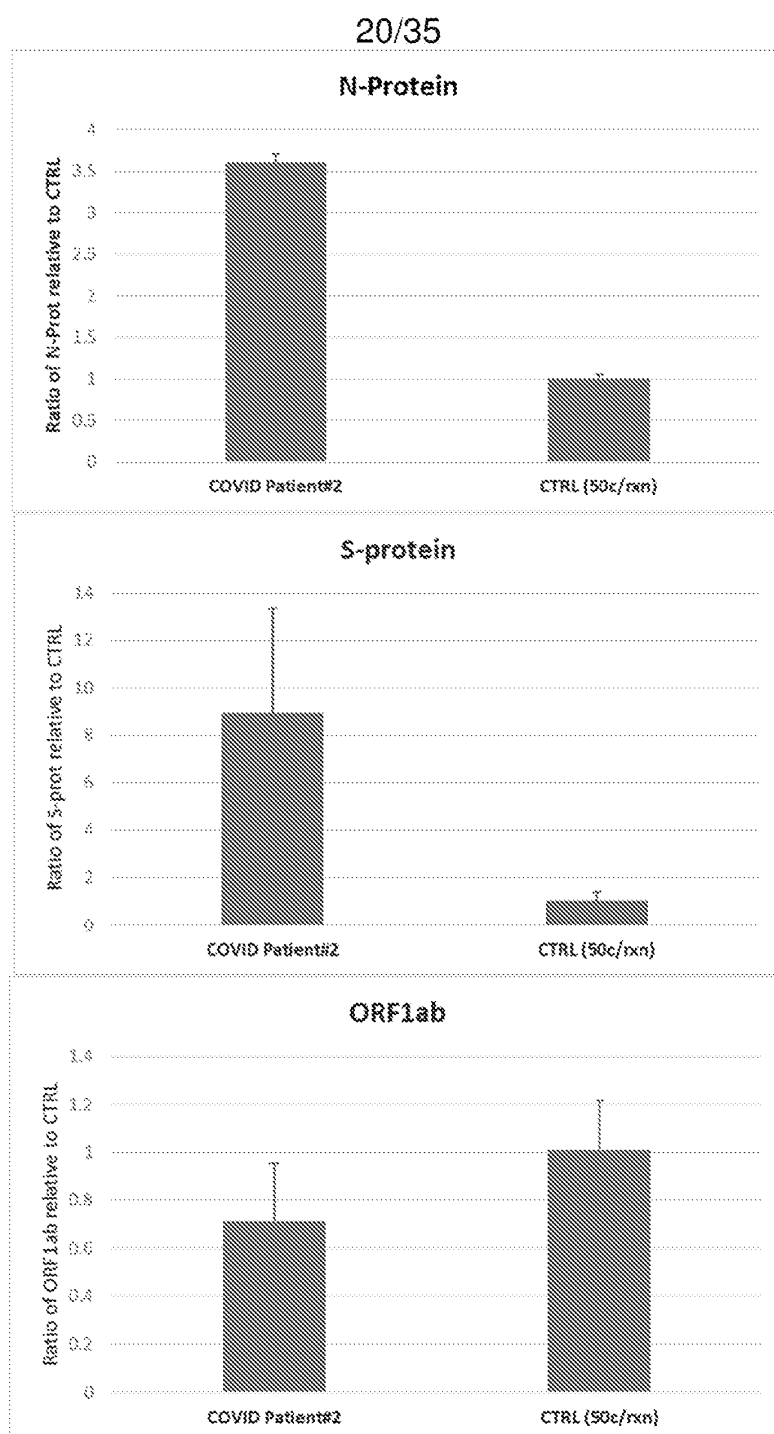


FIG. 15B

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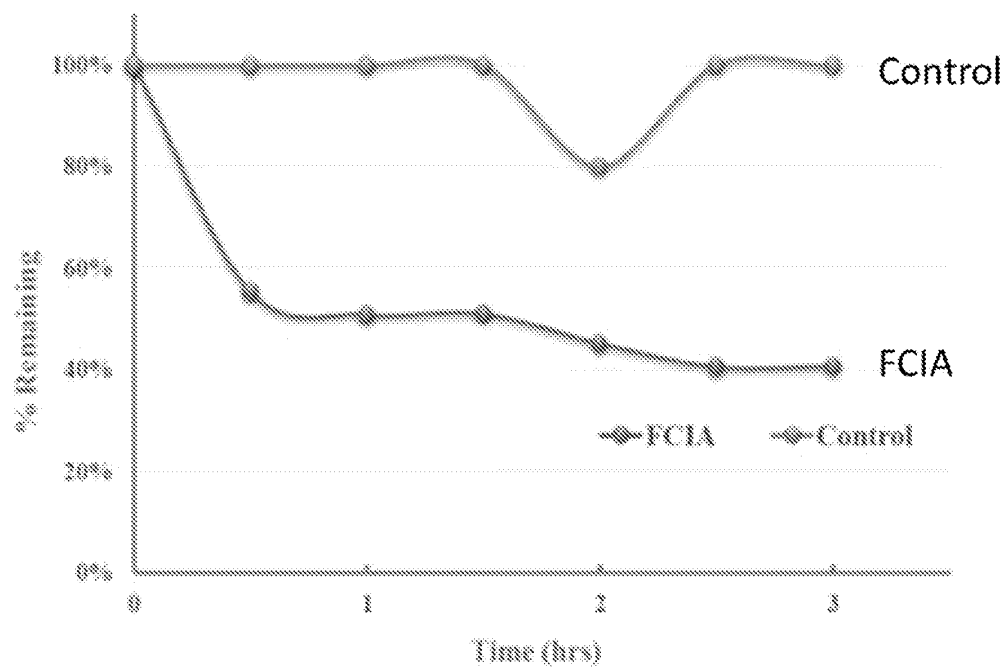


FIG. 16

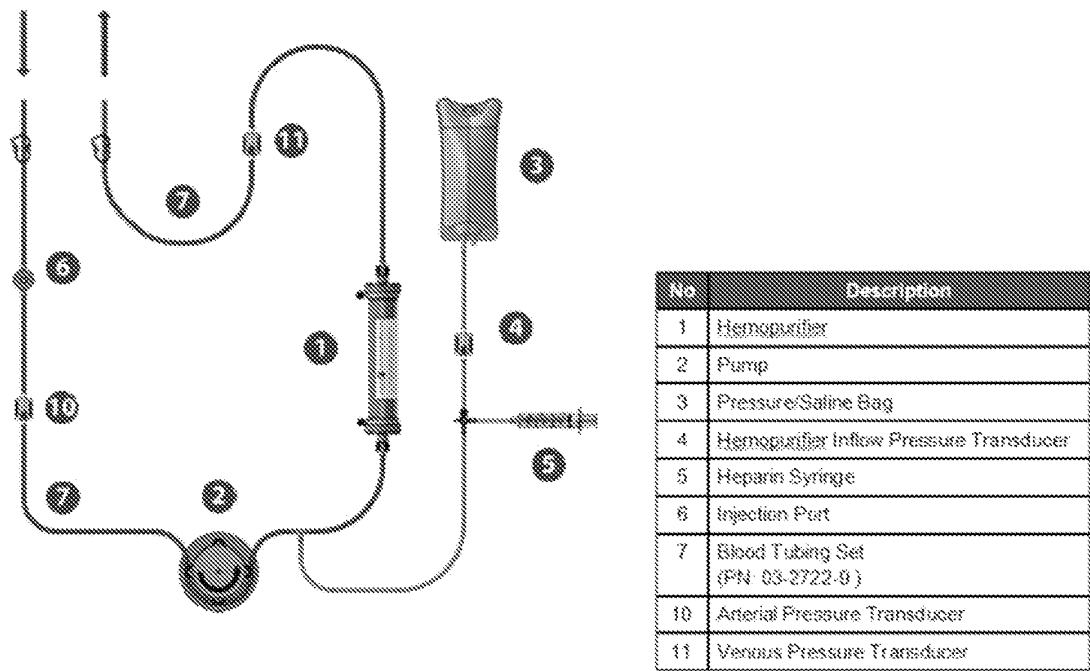


FIG. 17A

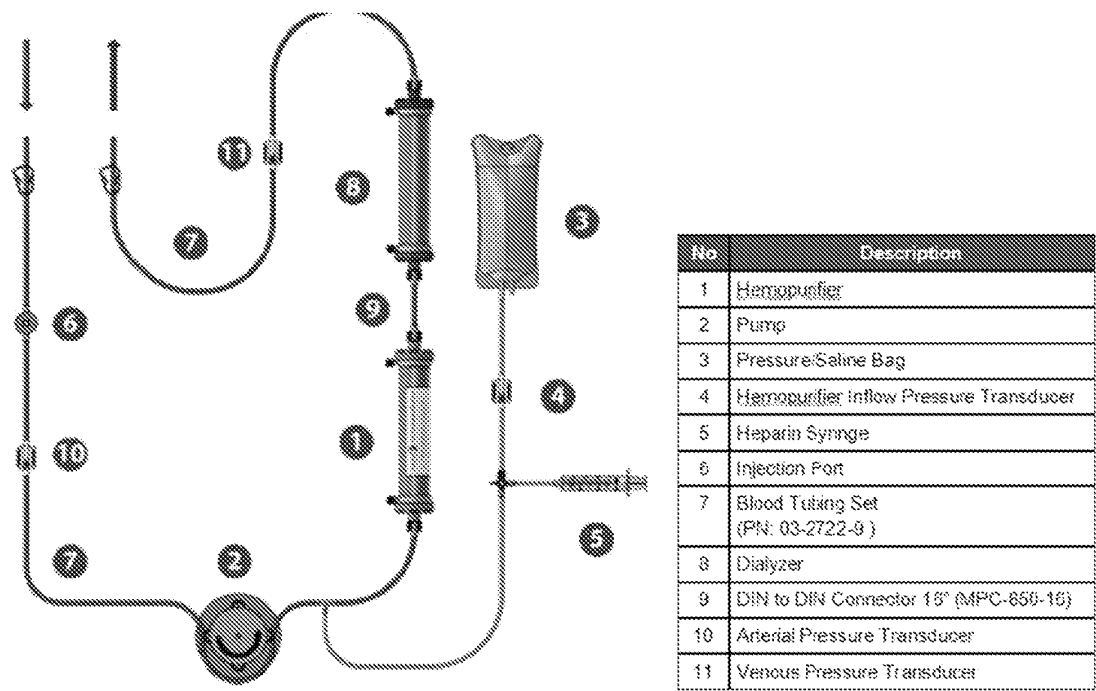


FIG. 17B

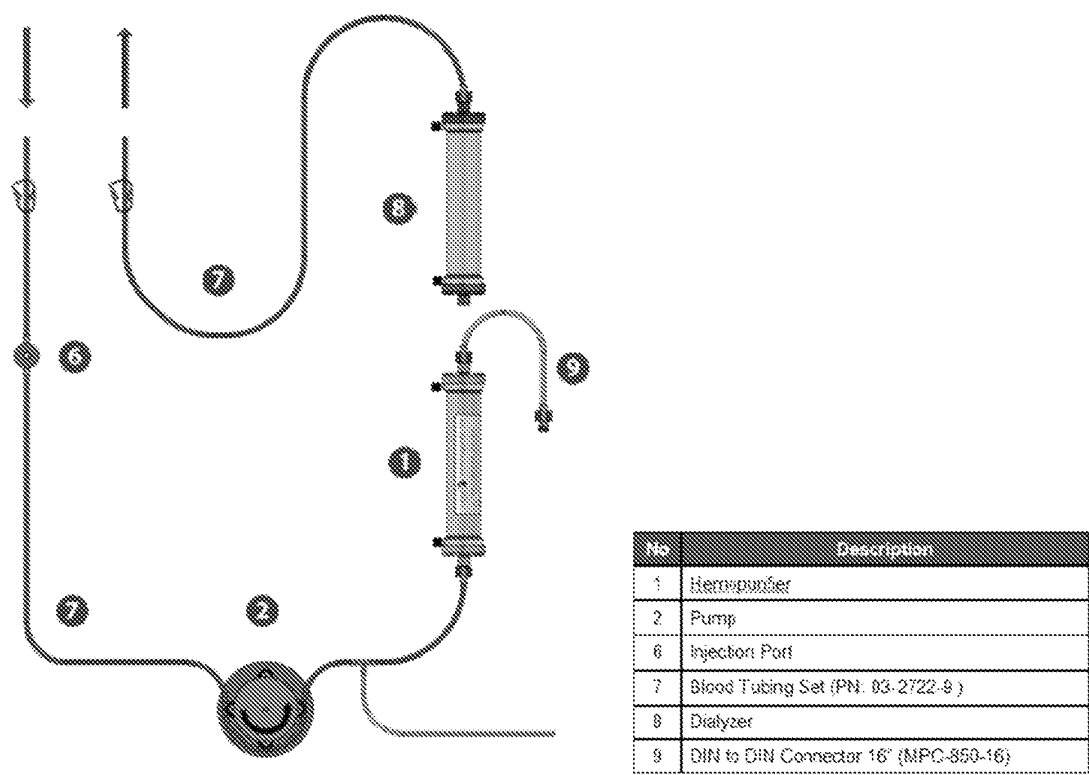


FIG. 17C

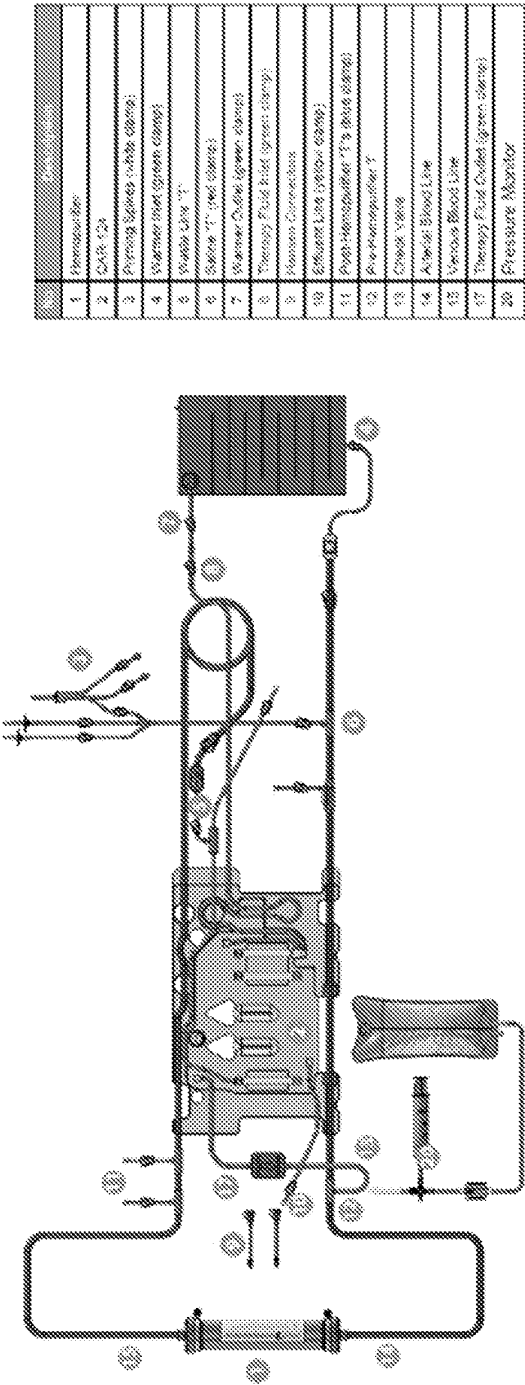


FIG. 17D

Ref. Num.	Description
1	Hemaphysalis
2	CAD-124
3	Priming Spikes (white clamp)
4	Warmer Inlet (green clamp)
5	Warmer Line "T"
6	Warmer Inlet (red clamp)
7	Warmer Outlet (green clamp)
8	Therapy Fluid Inlet (green clamp)
9	Arterial Connector
10	Effluent Line (yellow clamp)
11	Post Hemaphysalis "T" (blue clamp)
12	One Hemaphysalis "T"
13	Check Valve
14	Arterial Blood Line
15	Venous Blood Line
16	Charger
17	Therapy Fluid Outlet (green clamp)
18	Charger Ultrasafe Port
19	Core to Core Connector 18" (MPC-950-18)
20	Pressure Monitor

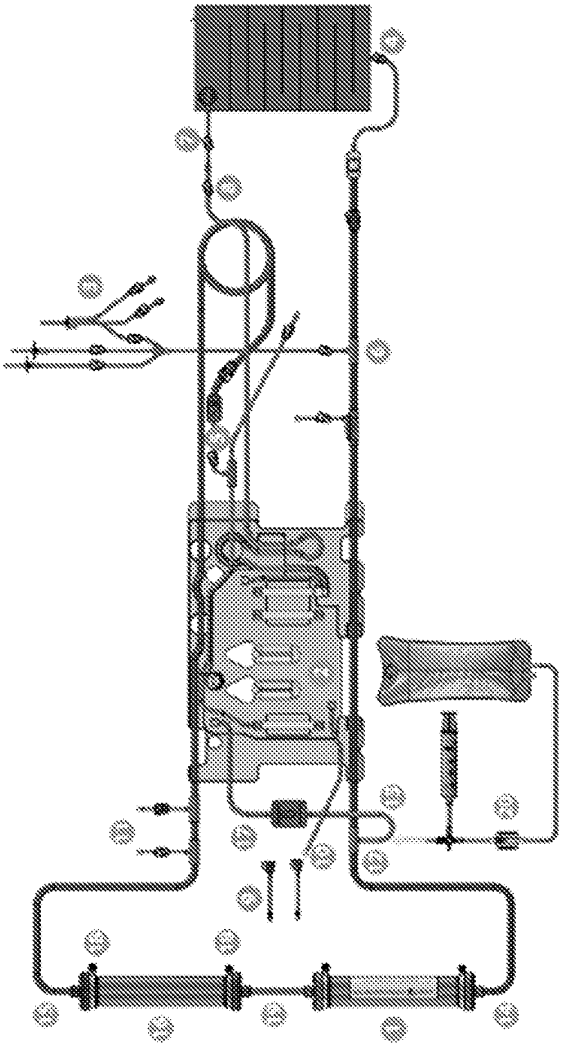


FIG. 17E

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Spike Protein Standards			
Sample	pg/mL	Absorbance	Corrected
Blank	0.000	0.104	0.000
ELISA Standard	10000	1.012	0.908
	5000	0.562	0.458
	2500	0.307	0.203
	1250	0.184	0.080
	625	0.137	0.033
	312.5	0.118	0.014
	156.25	0.134	0.030
UK Spike	20000	2.764	2.660
	10000	1.774	1.670
	5000	0.984	0.880
	2500	0.532	0.428
	1250	0.273	0.169
	625	0.173	0.069
	312.5	0.157	0.053
South Africa Spike	20000	2.076	1.972
	10000	1.160	1.056
	5000	0.625	0.521
	2500	0.363	0.259
	1250	0.211	0.107
	625	0.174	0.070
	312.5	0.185	0.081

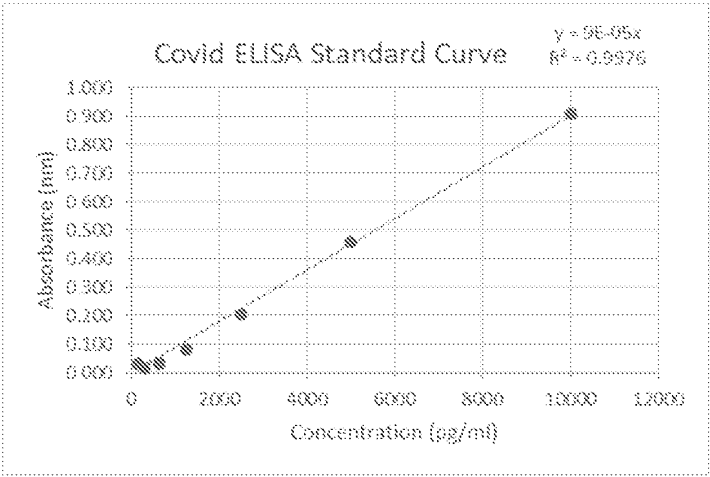


FIG. 18A

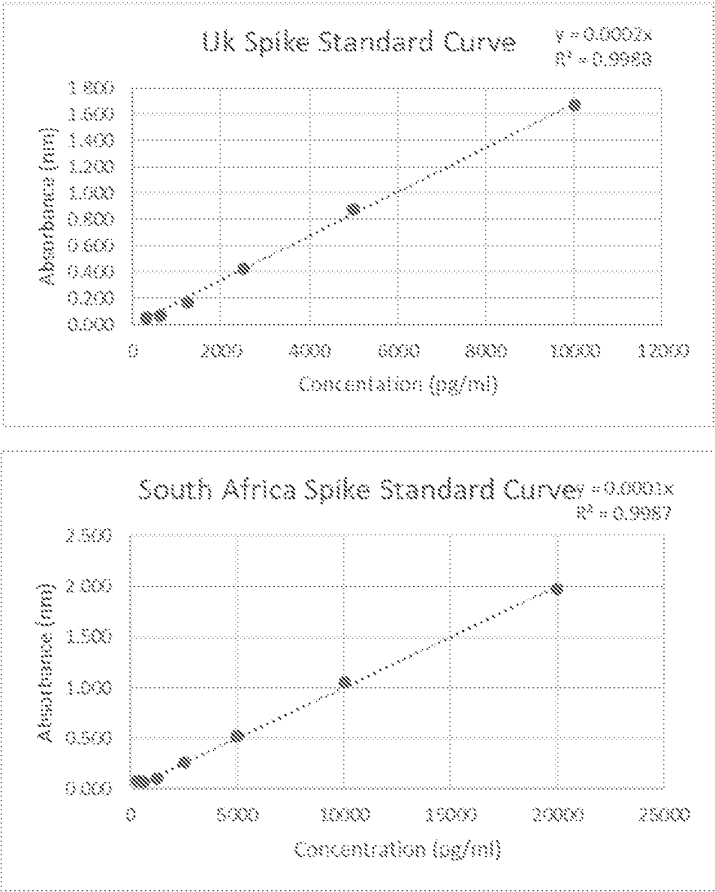


FIG. 18A cont.

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Dilution	Time	Sample	Absorption	Conc (ng/ml)
NA	NA	Blank Ave	0.164	0
UK in 1x PBS	0	T0	0.448	485.74
	0.25	15min	0.813	88.50
	0.5	30min	0.184	18.59
	1	1hr	0.135	4.17
	2	2hr	0.173	5.85
	3	3hr	0.059	0.81
	4	4h	0.097	2.47
South Africa in 1x PBS	0	T0	0.402	445.19
	0.25	15min	1.190	130.39
	0.5	30min	0.638	69.07
	1	1hr	0.598	24.77
	2	2hr	0.180	6.18
	3	3hr	0.117	3.39
	4	4h	0.081	1.80

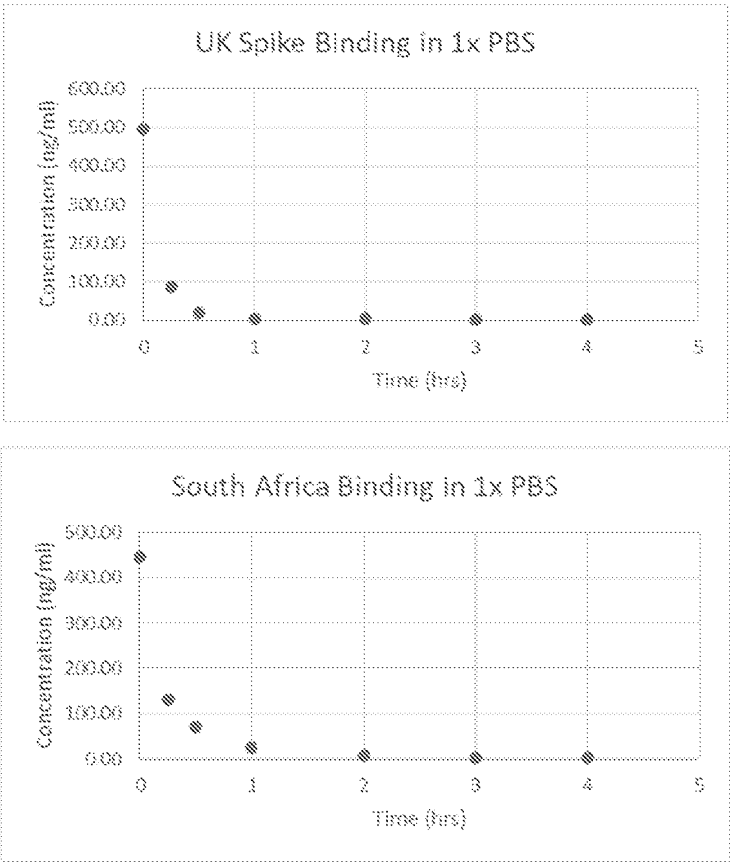


FIG. 18B

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Spike Protein Standard			
Dilution	Sample	Absorption	Conc. (ng/ml)
NA	Blank Ave	0.154	0.000
UK	10 ng/mL	2.029	10.000
	5 ng/mL	1.161	5.000
	2.5 ng/mL	0.635	2.500
	1.25 ng/mL	0.393	1.250
	0.625 ng/mL	0.252	0.625
	0.3125 ng/mL	0.157	0.313
	0.156 ng/mL	0.199	0.156
South Africa	10 ng/mL	1.516	10.000
	5 ng/mL	0.785	5.000
	2.5 ng/mL	0.436	2.500
	1.25 ng/mL	0.254	1.250
	0.625 ng/mL	0.173	0.625
	0.3125 ng/mL	0.129	0.313
	0.156 ng/mL	0.107	0.156

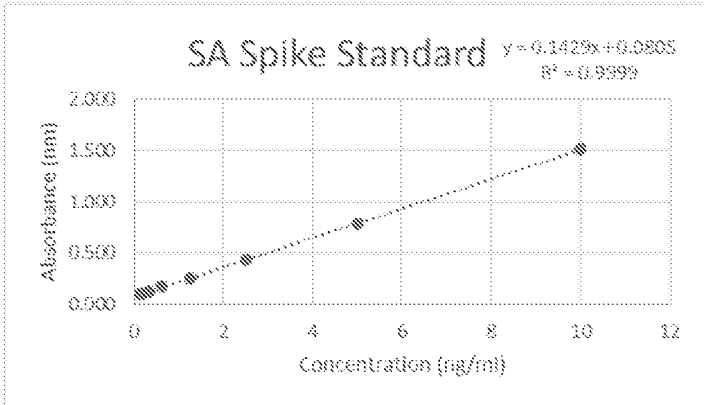
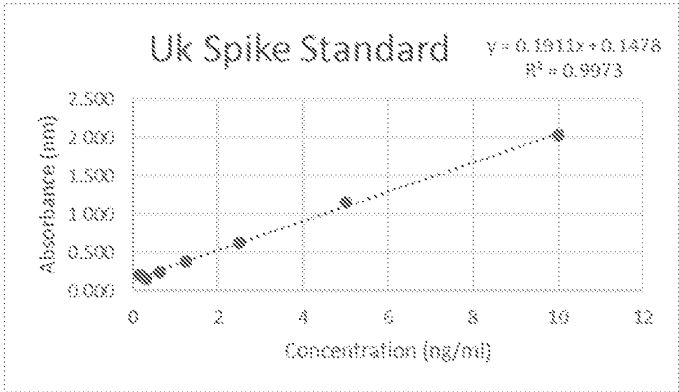


FIG. 18C

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Spike Protein in Exosome Free FBS Mini Hemopurifier Circuit Data			
Solution	Sample	Absorption	Conc (ng/ml)
South Africa in FBS	T0	0.616	422.774
	15min	0.552	378.018
	30min	0.474	323.654
	1hr	0.480	328.137
	2hr	0.445	303.366
	3hr	0.429	292.327
	4h	0.429	291.977
UK in FBS	T0	0.855	432.716
	15min	0.654	327.512
	30min	0.561	278.573
	1hr	0.516	255.315
	2hr	0.448	219.422
	4hr	0.410	199.939
India in FBS	T0	0.574	393.517
	15min	0.421	286.636
	30min	0.397	269.870
	1hr	0.376	255.115
	2hr	0.363	245.920
	3hr	0.355	240.066
	4hr	0.339	229.191

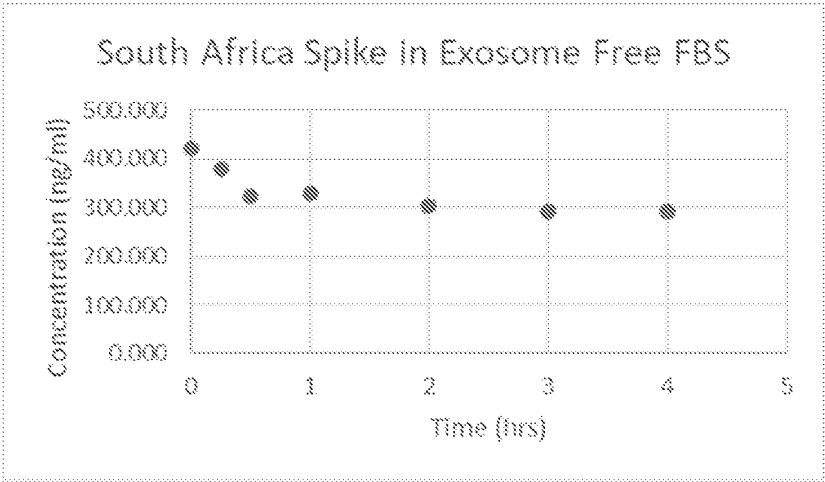


FIG. 18D

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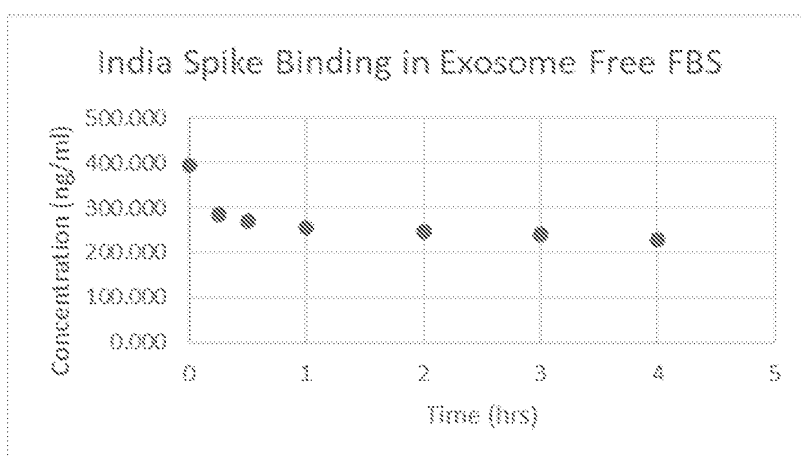
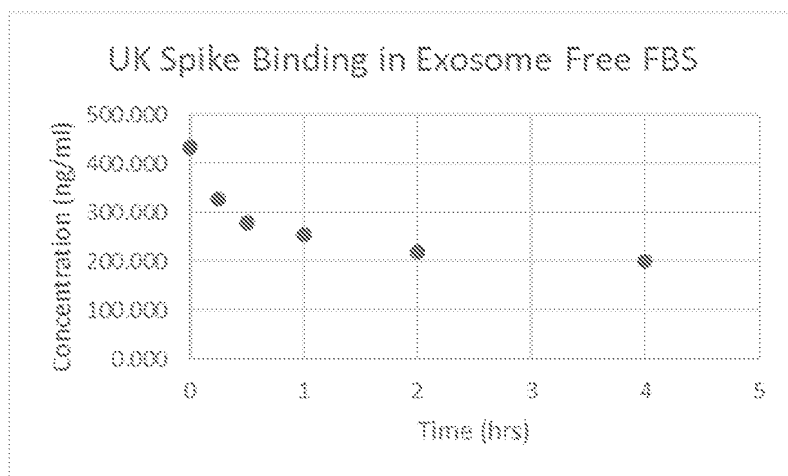


FIG. 18D cont.

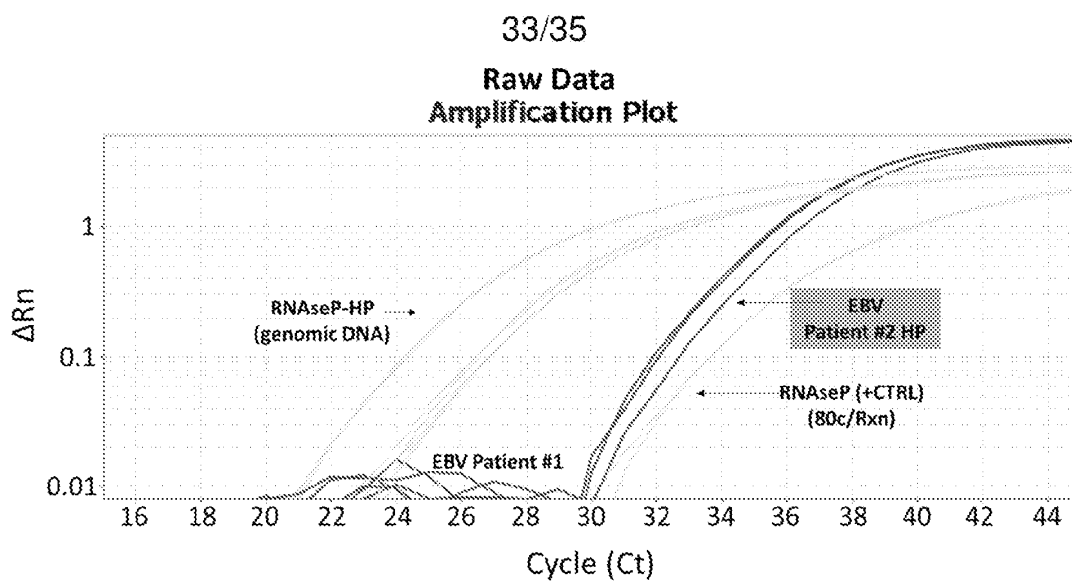


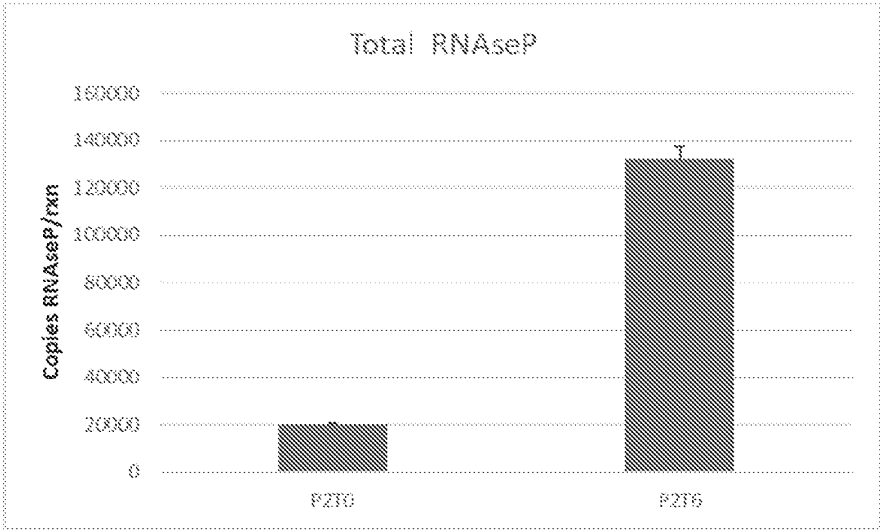
FIG. 19A

Samples (~40ng DNA from Hemopurifier)	RNAseP (Ct)	EBV (Ct)
Patient 1 Day 1	27.8	not detected
Patient 1 Day 2	27.3	not detected
Patient 2 Day 1	25.2	34.7
Positive Control (80c/RNAseP)	34.6	n/a

FIG. 19B

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qPCR data shows a 6.5x increase in total circulating copies of genomic RNaseP



qPCR data shows a 2x increase in total circulating copies of EBV genome

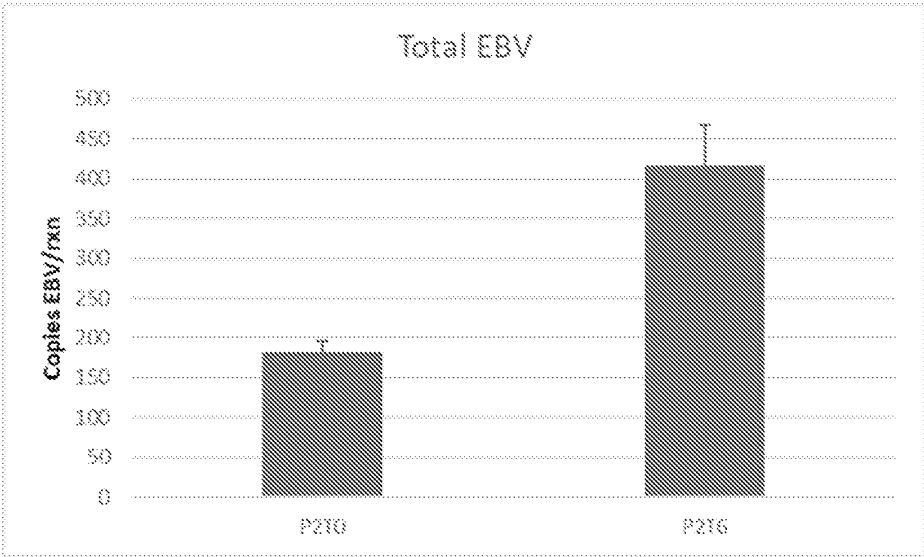


FIG. 20

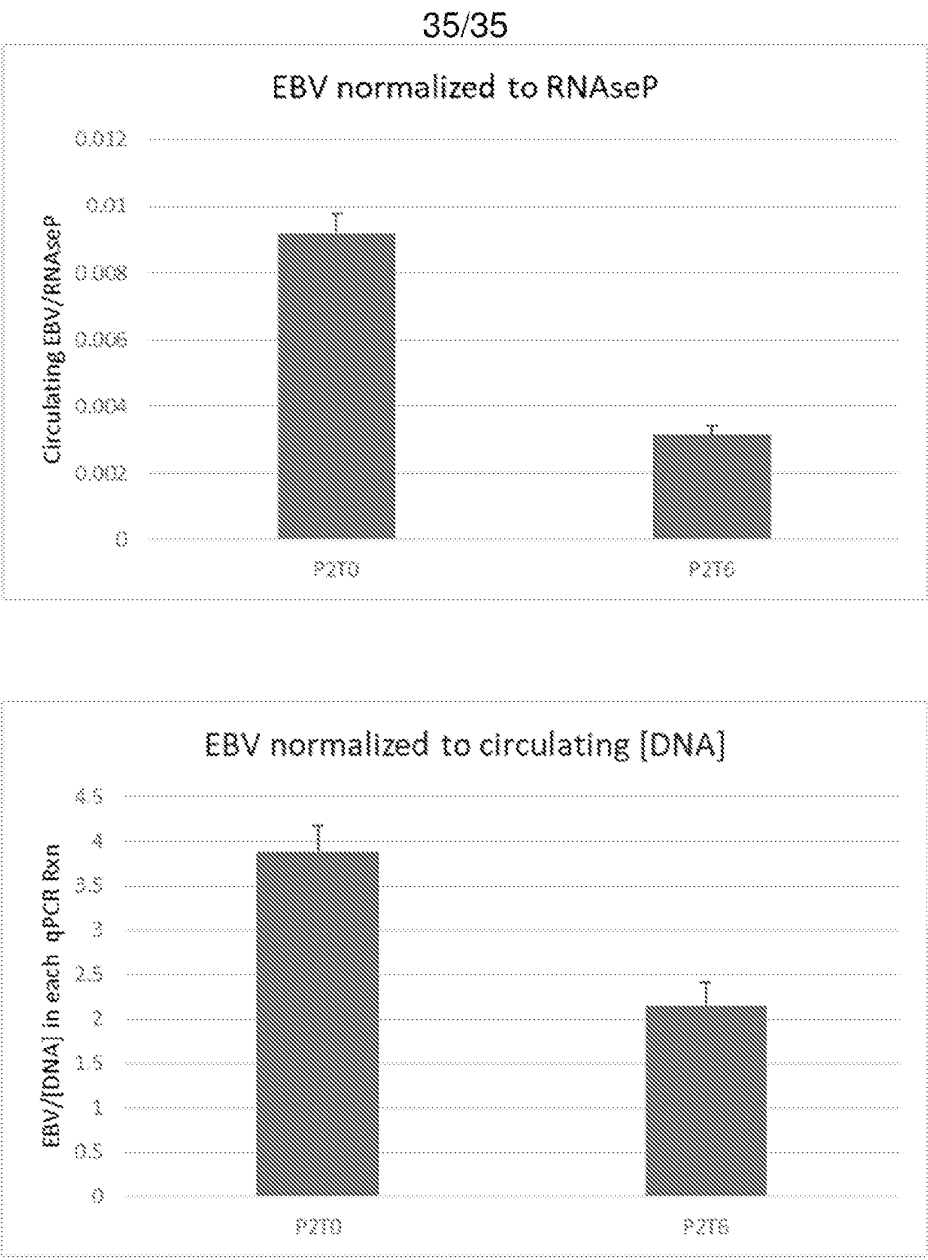


FIG. 21