FIG 1A

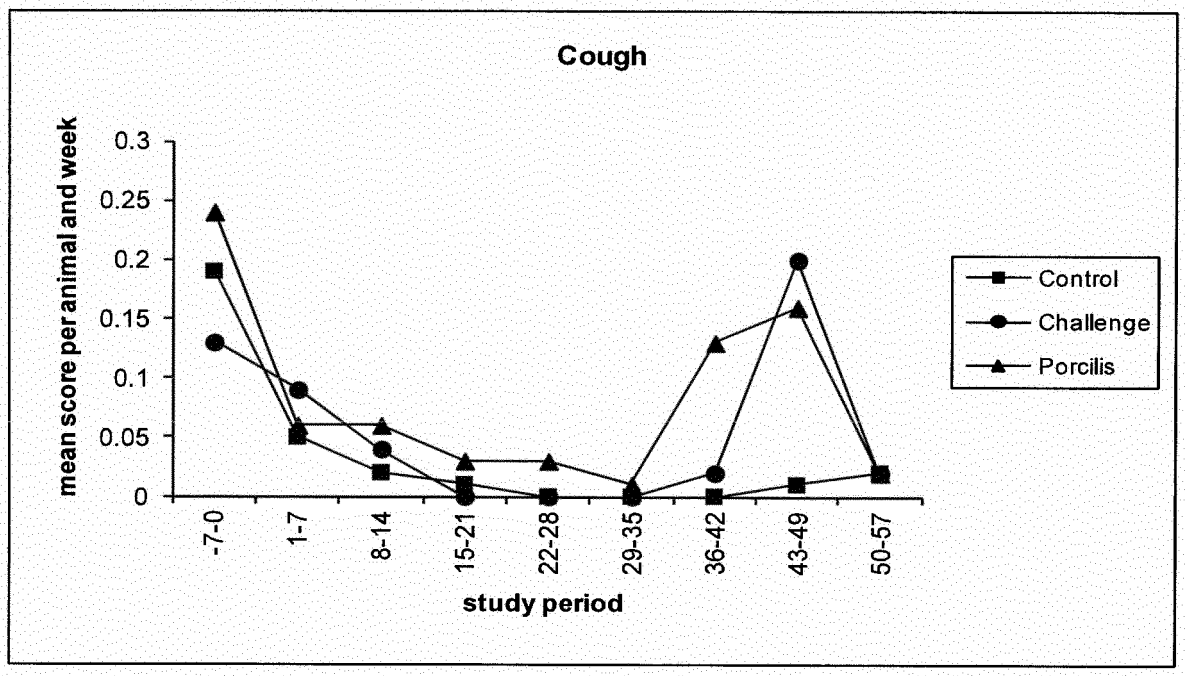

Cough
mean score per animal and week
0.3
0.25
0.2
0.15
0.1
0.05
0
-7-0
1-7
8-14
15-21
22-28
29-35
36-42
43-49
50-57
study period
Control
Challenge
Porcilis

FIG 1B

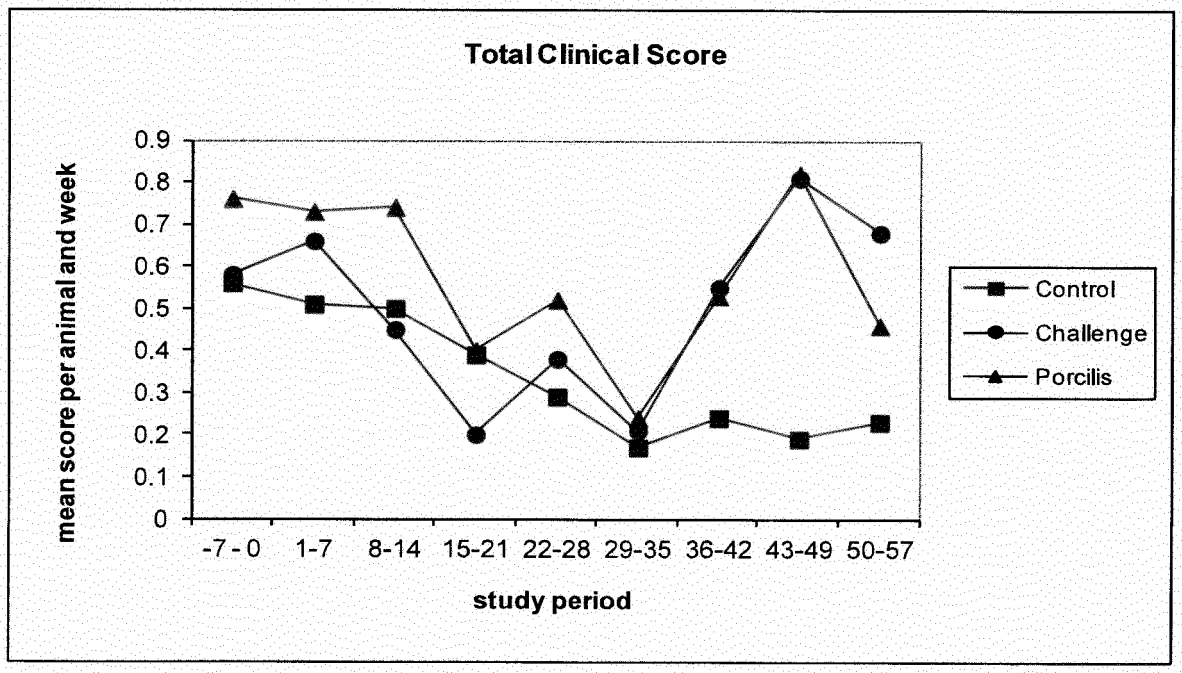

Total Clinical Score
mean score per animal and week
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-7 - 0
1-7
8-14
15-21
22-28
29-35
36-42
43-49
50-57
study period
Control
Challenge
Porcilis

FIG 2

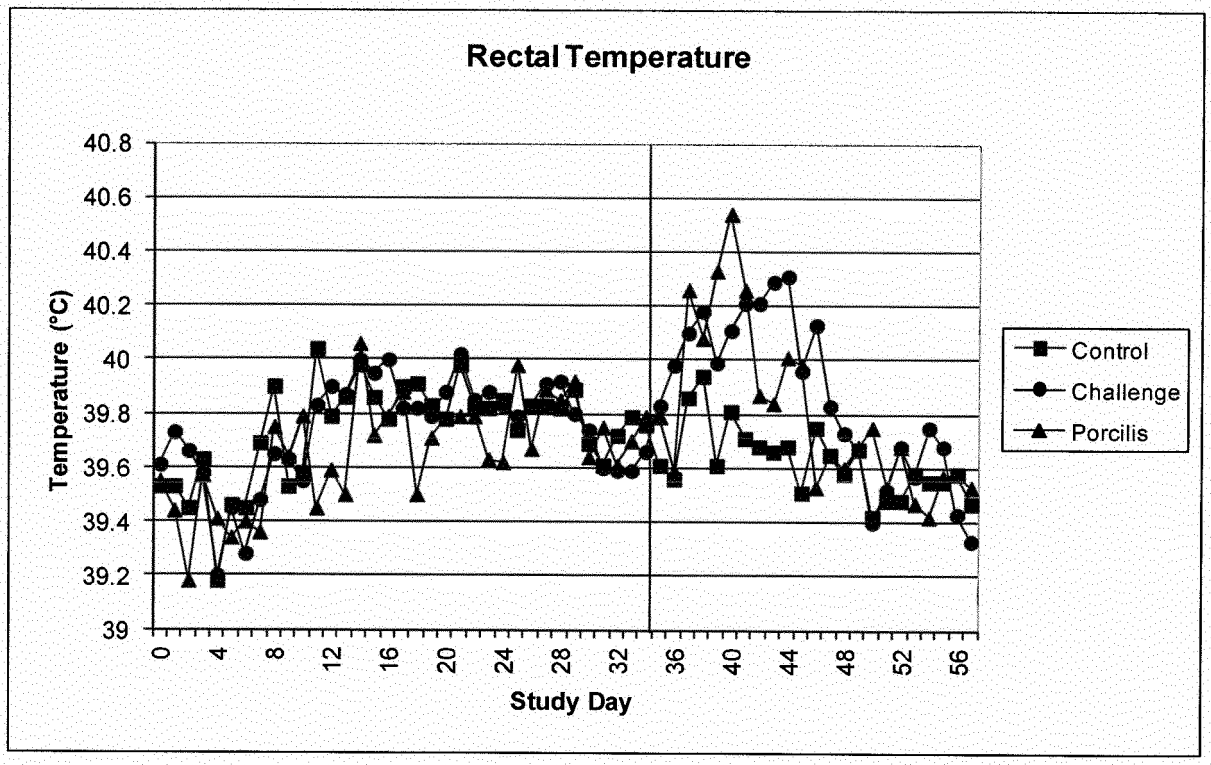

Rectal Temperature
Temperature (°C)
40.8
40.6
40.4
40.2
40
39.8
39.6
39.4
39.2
39
0
4
8
12
16
20
24
28
32
36
40
44
48
52
56
Study Day
Control
Challenge
Porcilis

FIG 3

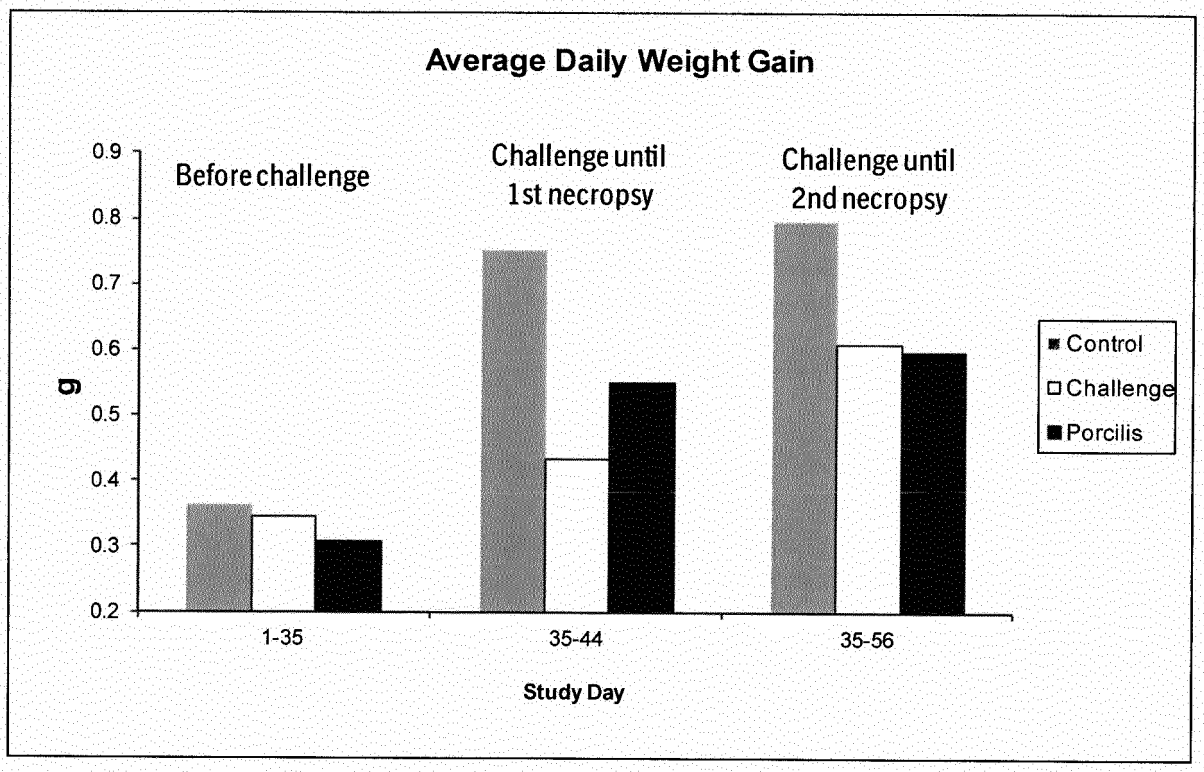

Average Daily Weight Gain
Before challenge
Challenge until 1st necropsy
Challenge until 2nd necropsy
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
g
1-35
35-44
35-56
Study Day
Control
Challenge
Porcilis

FIG 4

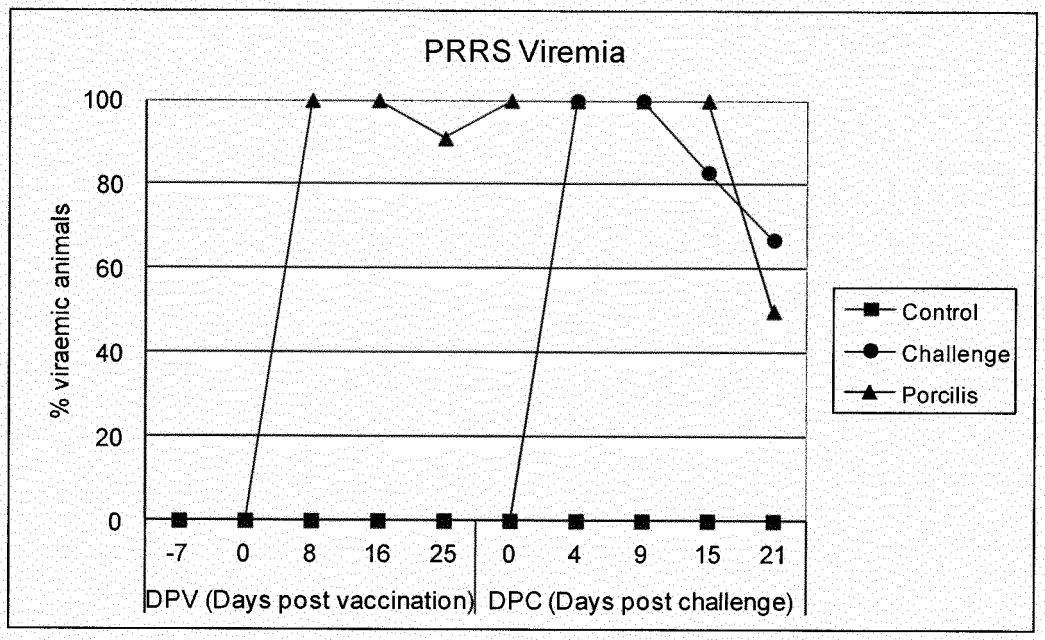

PRRS Viremia
% viraemic animals
100
80
60
40
20
0
-7
0
8
16
25
0
4
9
15
21
DPV (Days post vaccination)
DPC (Days post challenge)
Control
Challenge
Porcilis

FIG 5

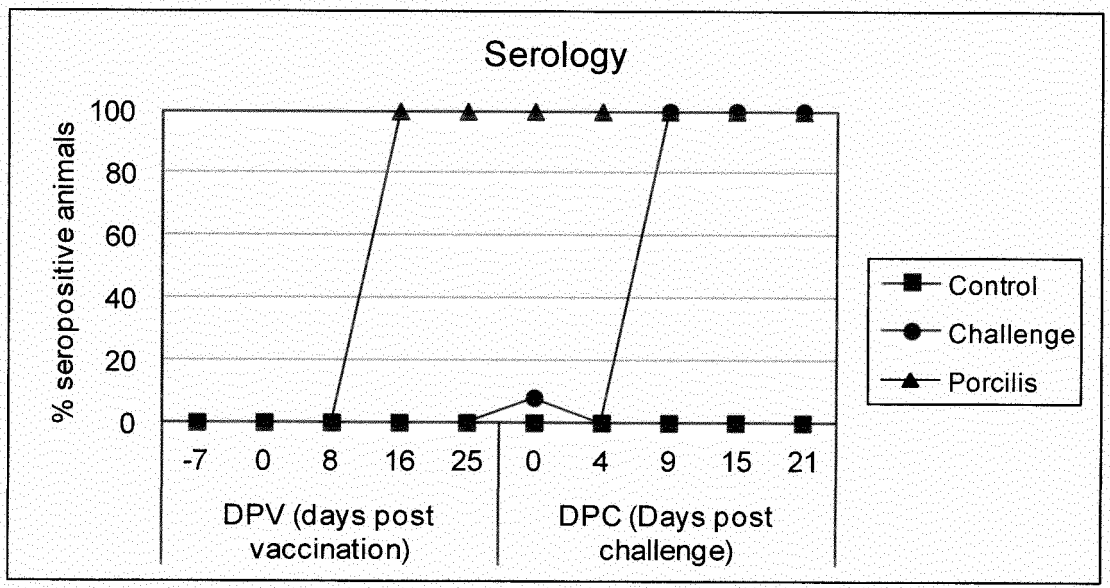

Serology
% seropositive animals
100
80
60
40
20
0
-7
0
8
16
25
0
4
9
15
21
DPV (days post vaccination)
DPC (Days post challenge)
Control
Challenge
Porcilis

FIG 6

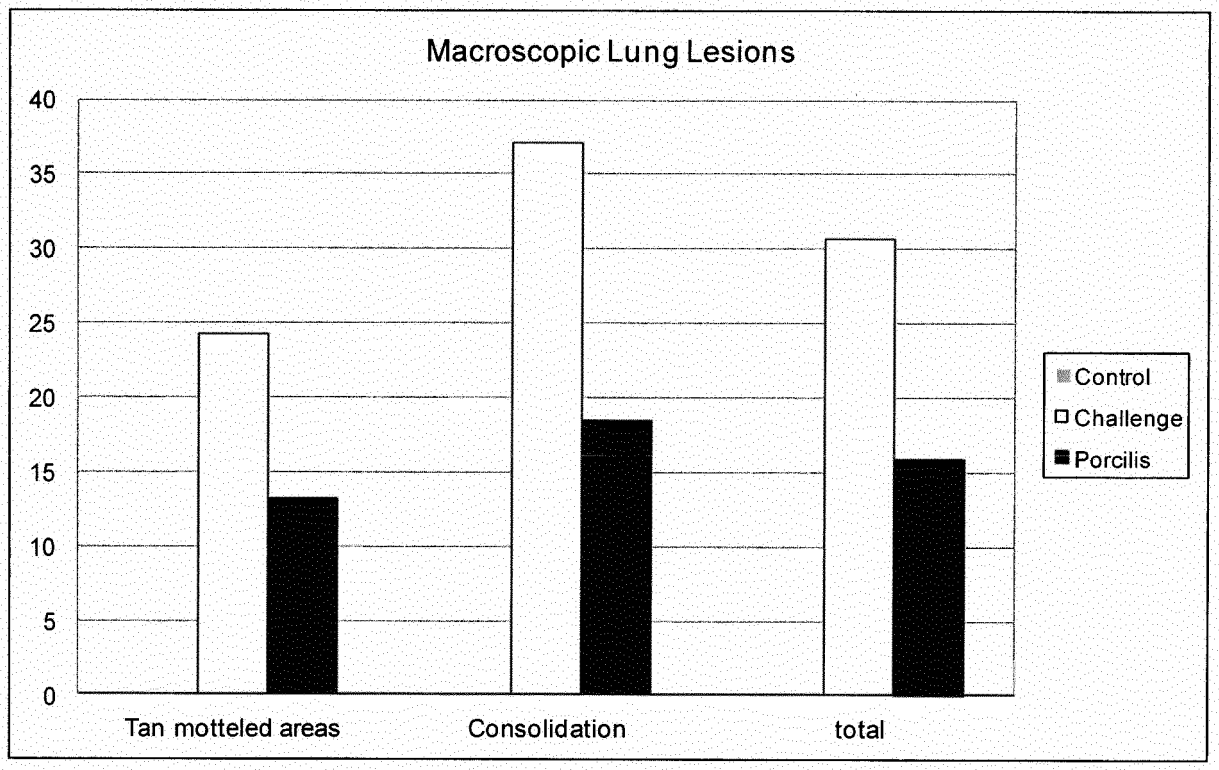

Macroscopic Lung Lesions
40
35
30
25
20
15
10
5
0
Tan motteled areas
Consolidation
total
Control
Challenge
Porcilis

FIG 7A

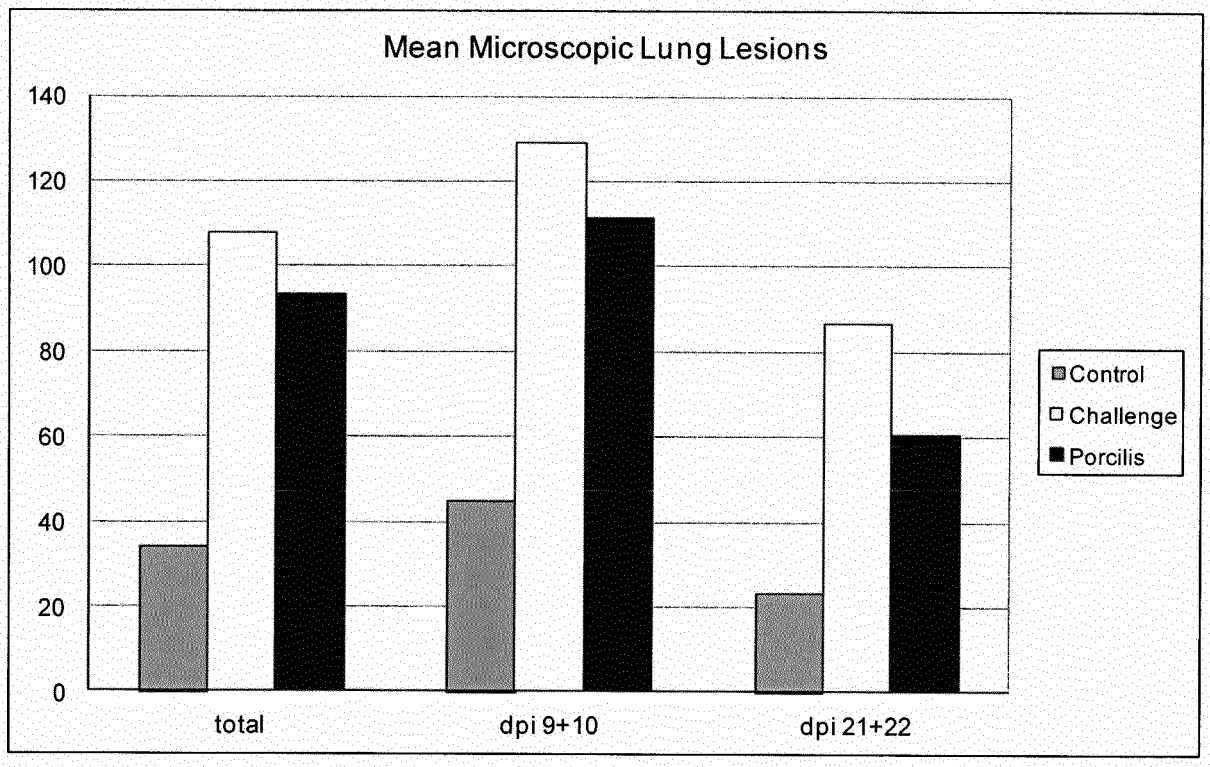

Mean Microscopic Lung Lesions
140
120
100
80
60
40
20
0
total
dpi 9+10
dpi 21+22
Control
Challenge
Porcilis

FIG 7B

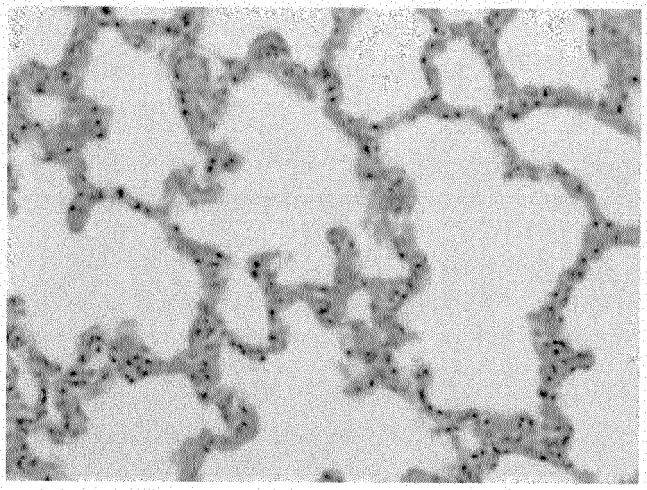


FIG 7C

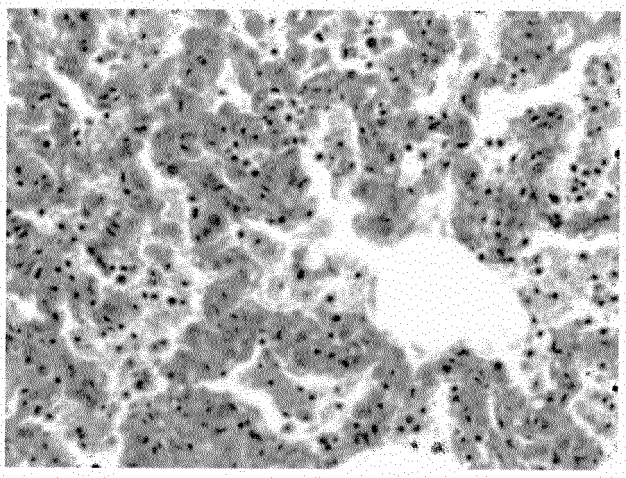
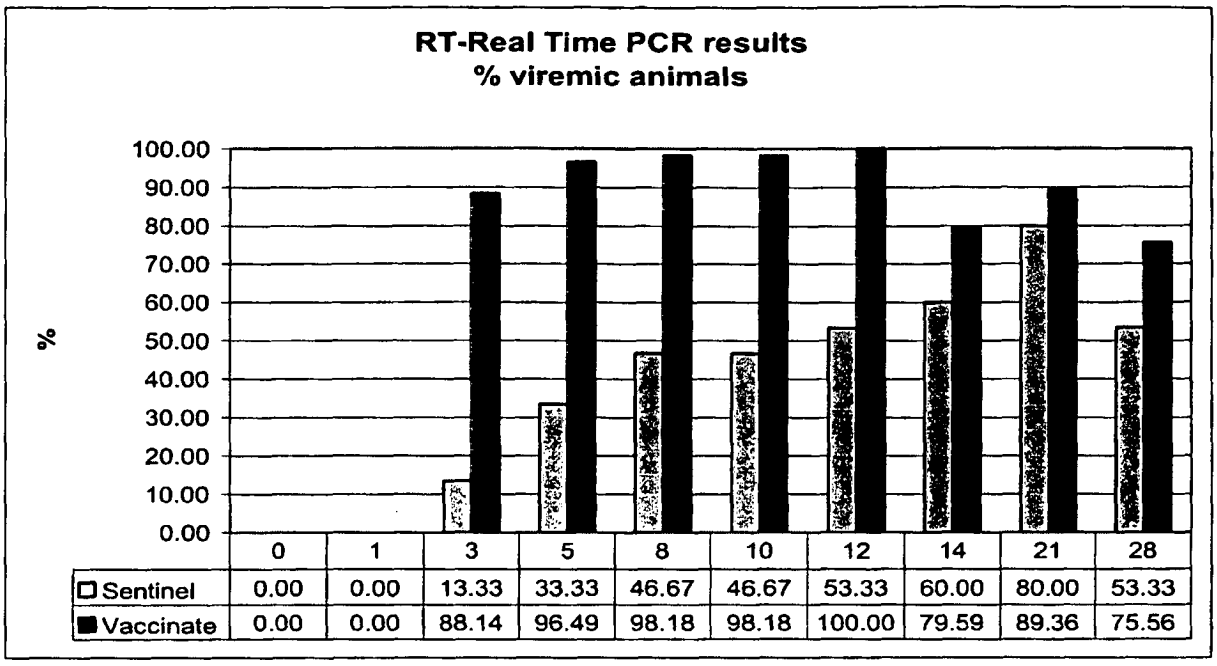
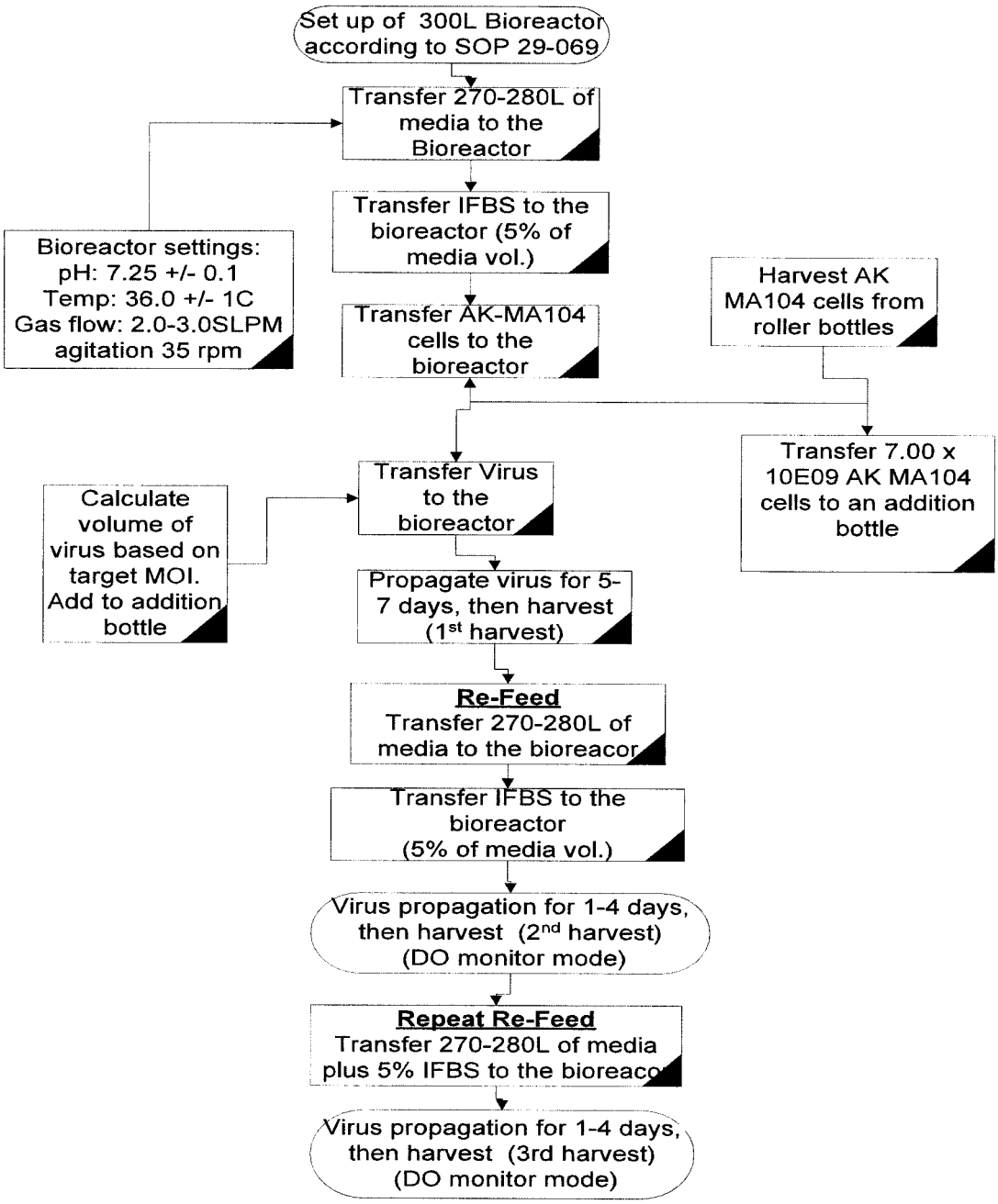


FIG 8



	0	1	3	5	8	10	12	14	21	28
Sentinel	0.00	0.00	13.33	33.33	46.67	46.67	53.33	60.00	80.00	53.33
Vaccinate	0.00	0.00	88.14	96.49	98.18	98.18	100.00	79.59	89.36	75.56

FIG 9


Set up of 300L Bioreactor according to SOP 29-069
Transfer 270-280L of media to the Bioreactor
Transfer IFBS to the bioreactor (5% of media vol.)
Transfer AK-MA104 cells to the bioreactor
Bioreactor settings: pH: 7.25 +/- 0.1 Temp: 36.0 +/- 1C Gas flow: 2.0-3.0SLPM agitation 35 rpm
Harvest AK MA104 cells from roller bottles
Transfer 7.00 x 10E09 AK MA104 cells to an addition bottle
Transfer Virus to the bioreactor
Calculate volume of virus based on target MOI. Add to addition bottle
Propagate virus for 5-7 days, then harvest (1st harvest)
Re-Feed
Transfer 270-280L of media to the bioreacor
Transfer IFBS to the bioreactor (5% of media vol.)
Virus propagation for 1-4 days, then harvest (2nd harvest) (DO monitor mode)
Repeat Re-Feed
Transfer 270-280L of media plus 5% IFBS to the bioreaco
Virus propagation for 1-4 days, then harvest (3rd harvest) (DO monitor mode)