

FIG. 1A

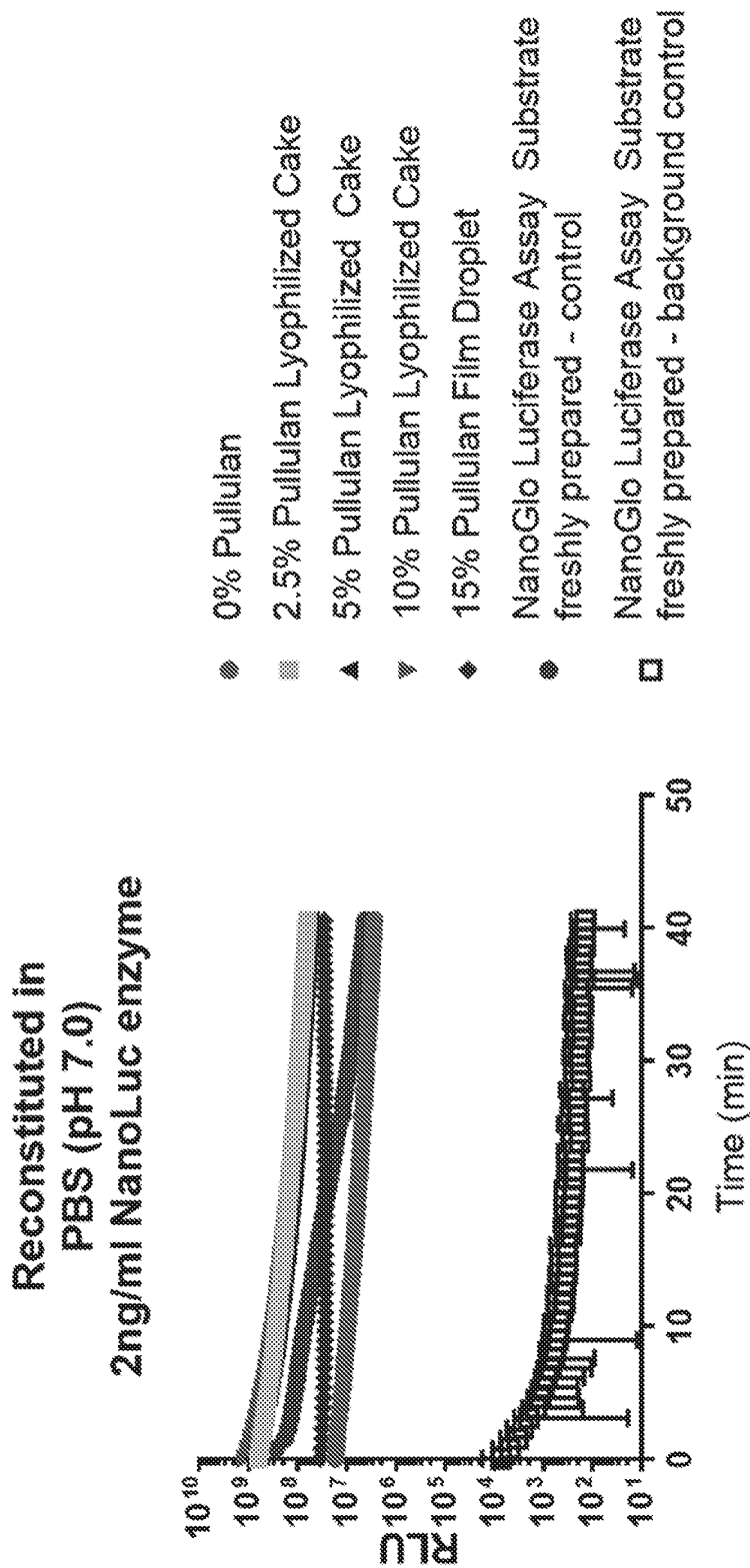


FIG. 1B

Reconstituted in
NanoGlo buffer
2ng/ml NanoLuc enzyme

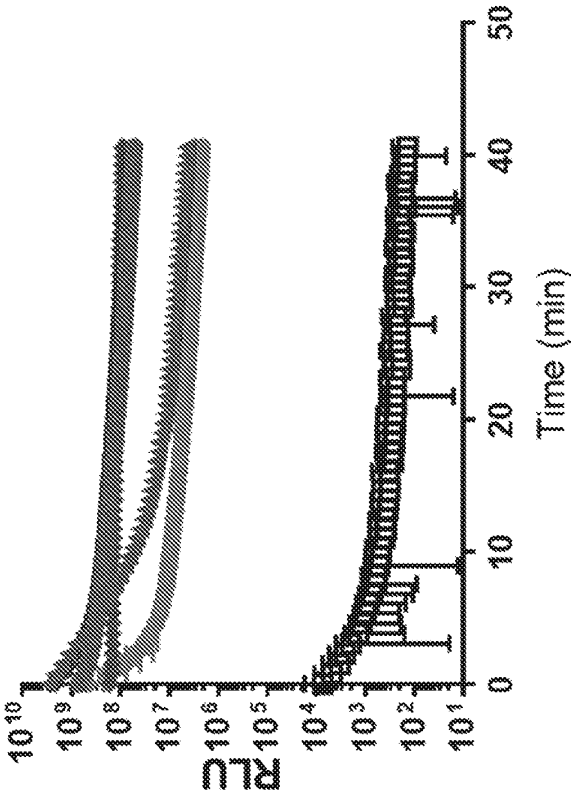


FIG. 1C

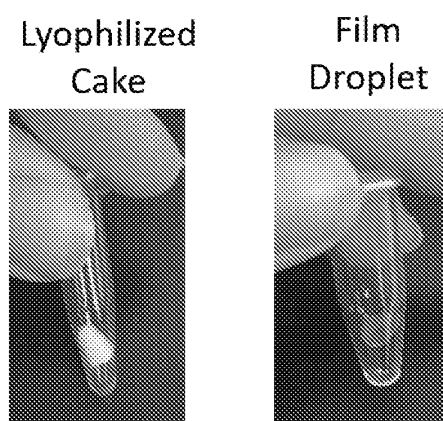


FIG. 2A

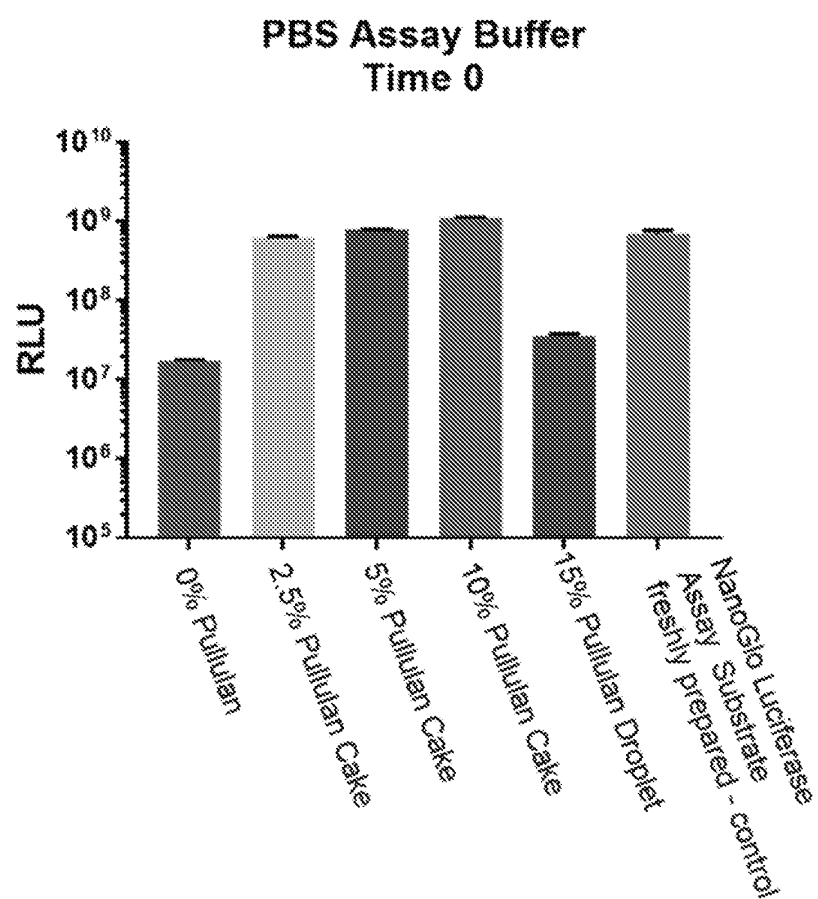


FIG. 2B

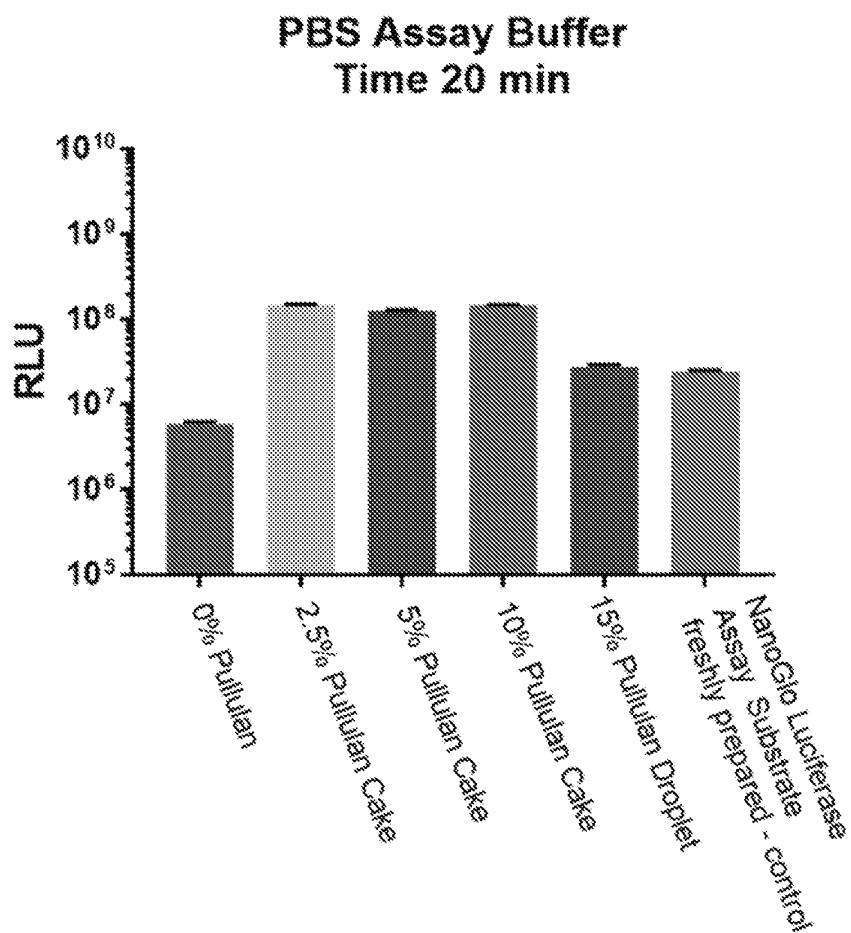


FIG. 2C

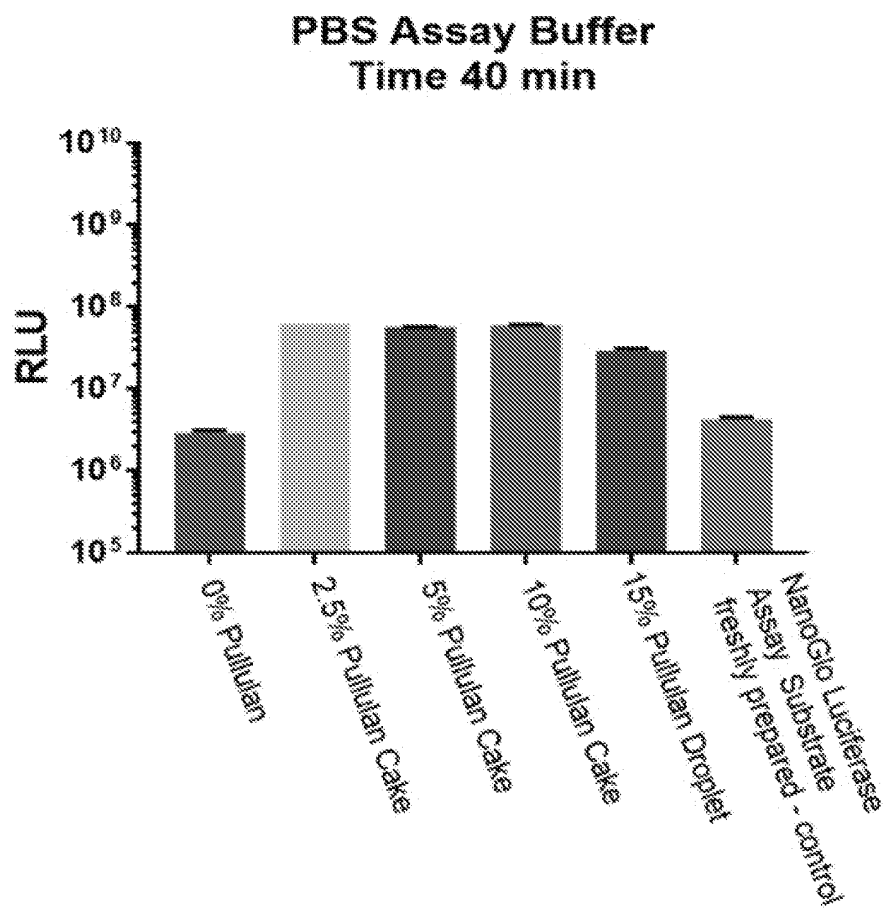


FIG. 3A

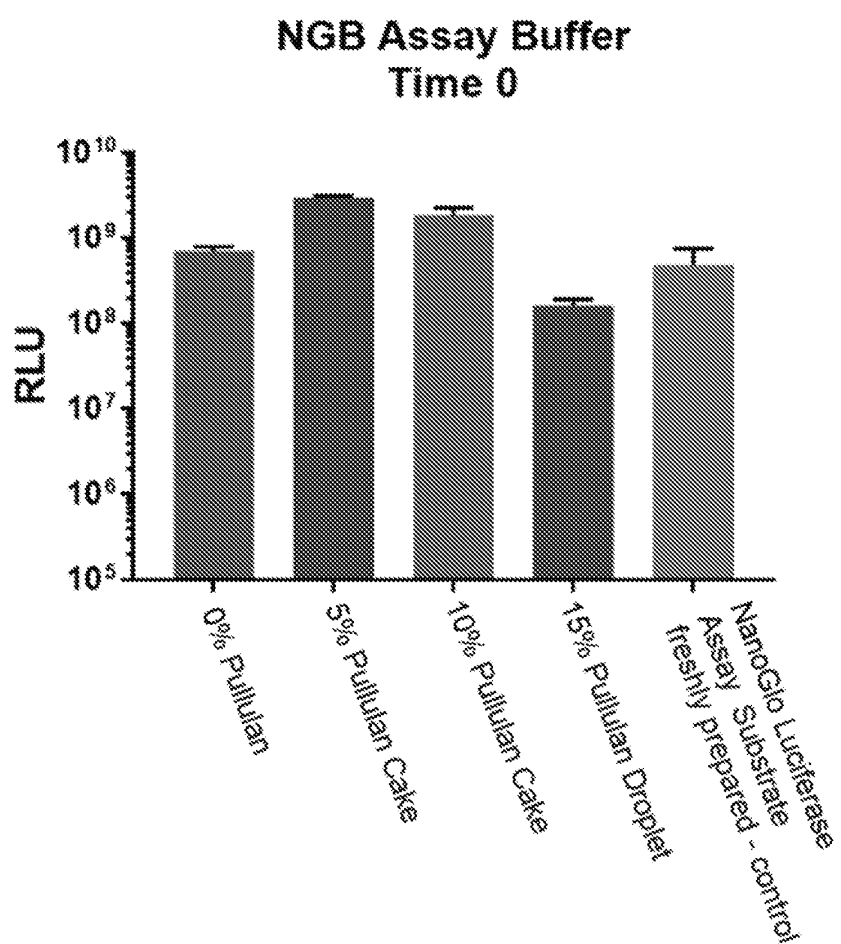


FIG. 3B

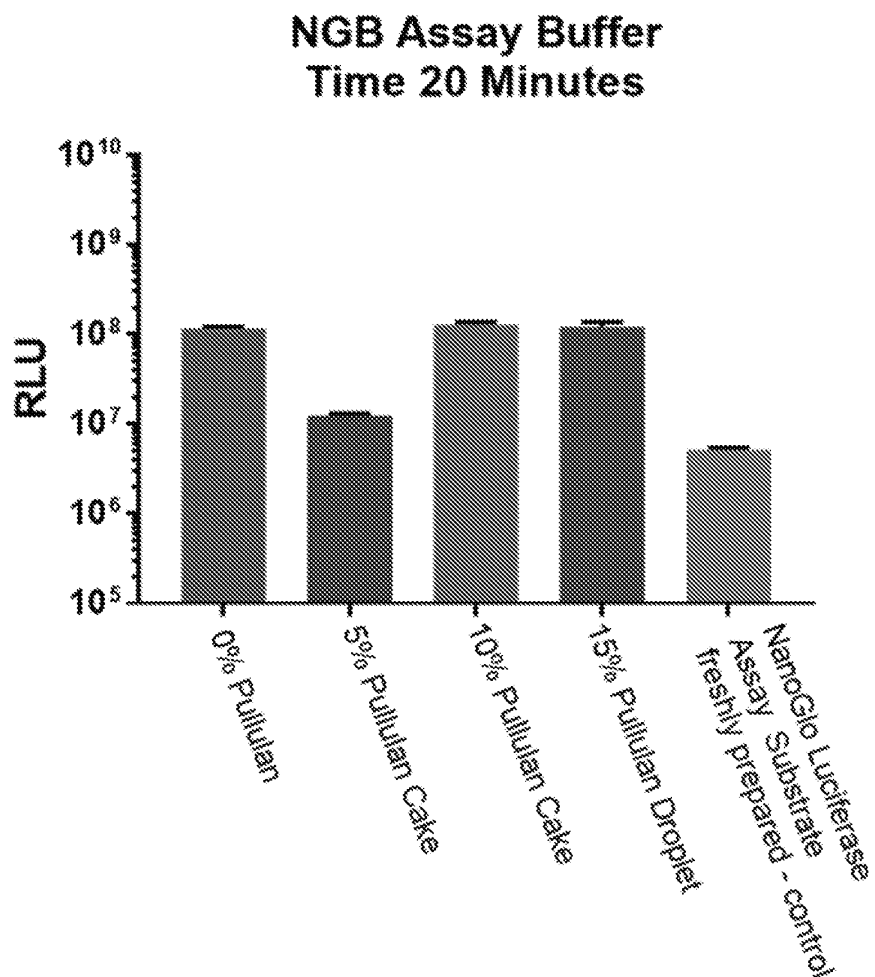


FIG. 3C

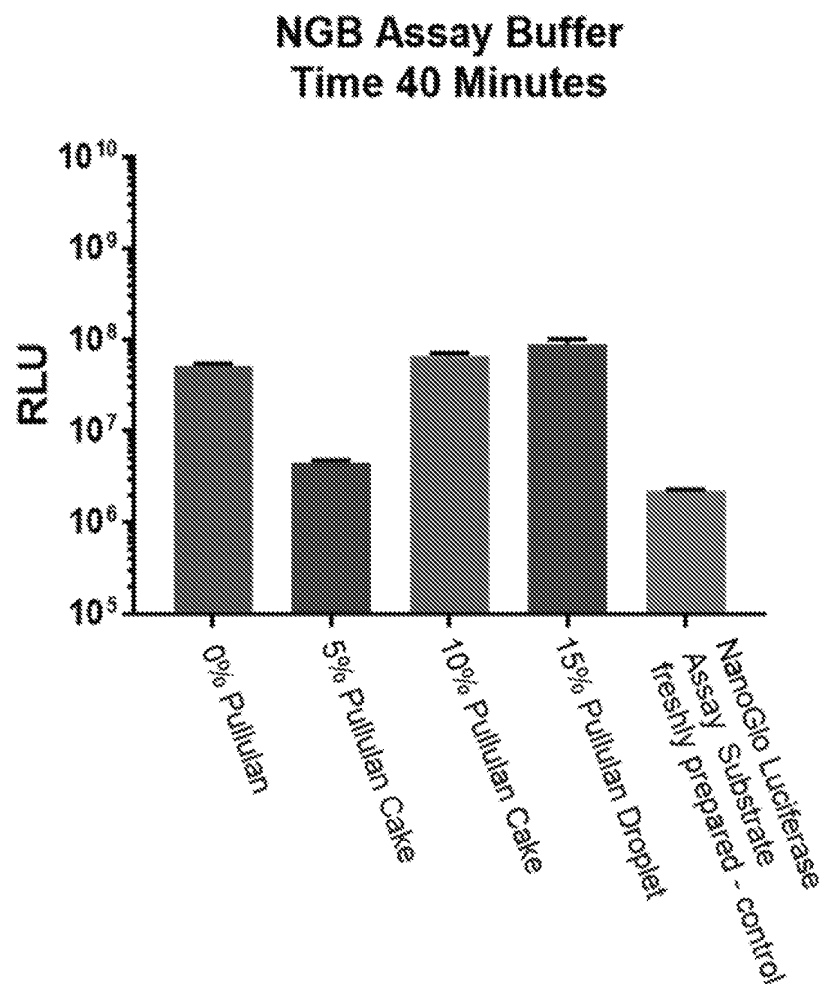
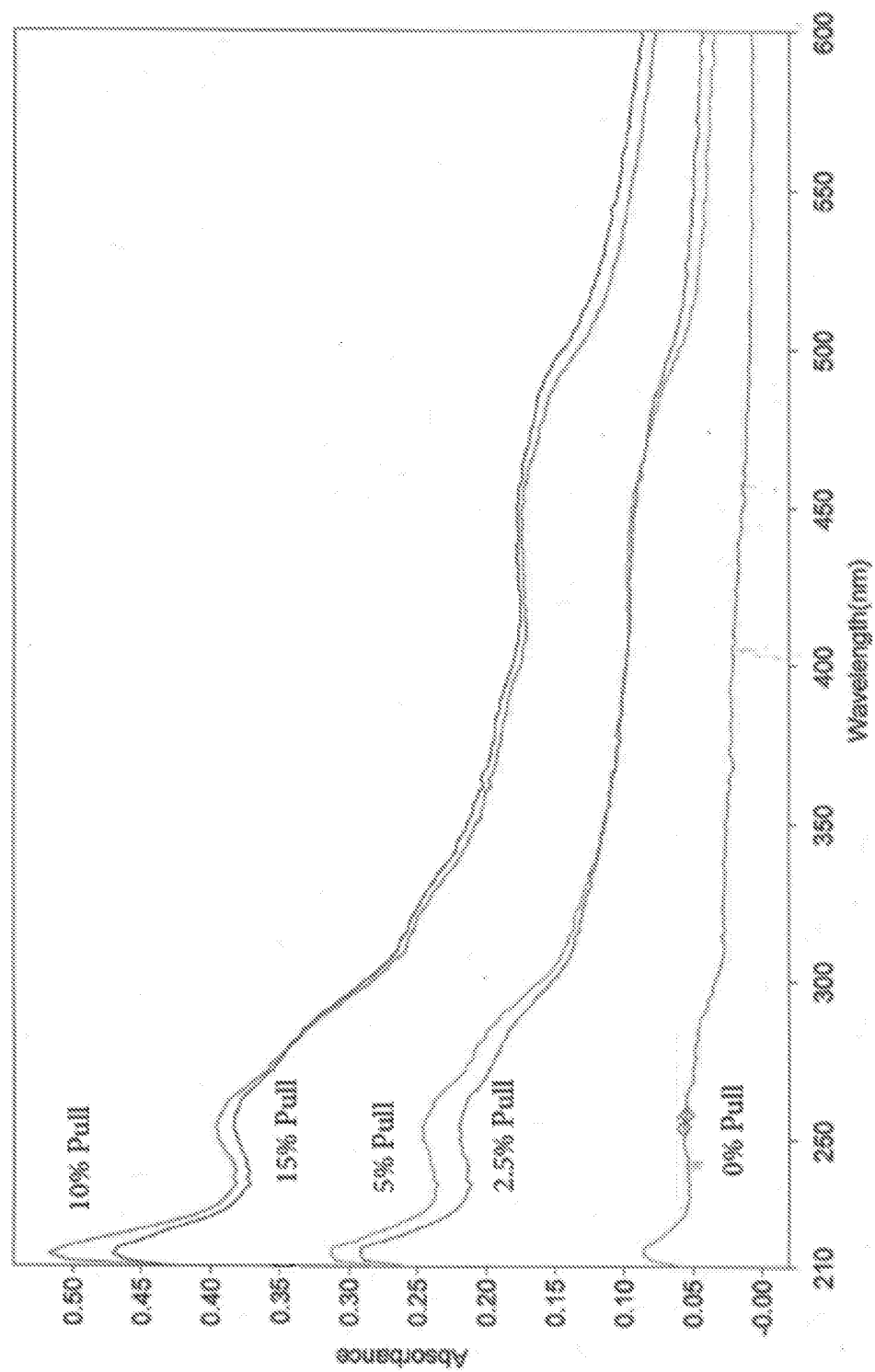


FIG. 4A



SUBSTITUTE SHEET (RULE 26)

FIG. 4B

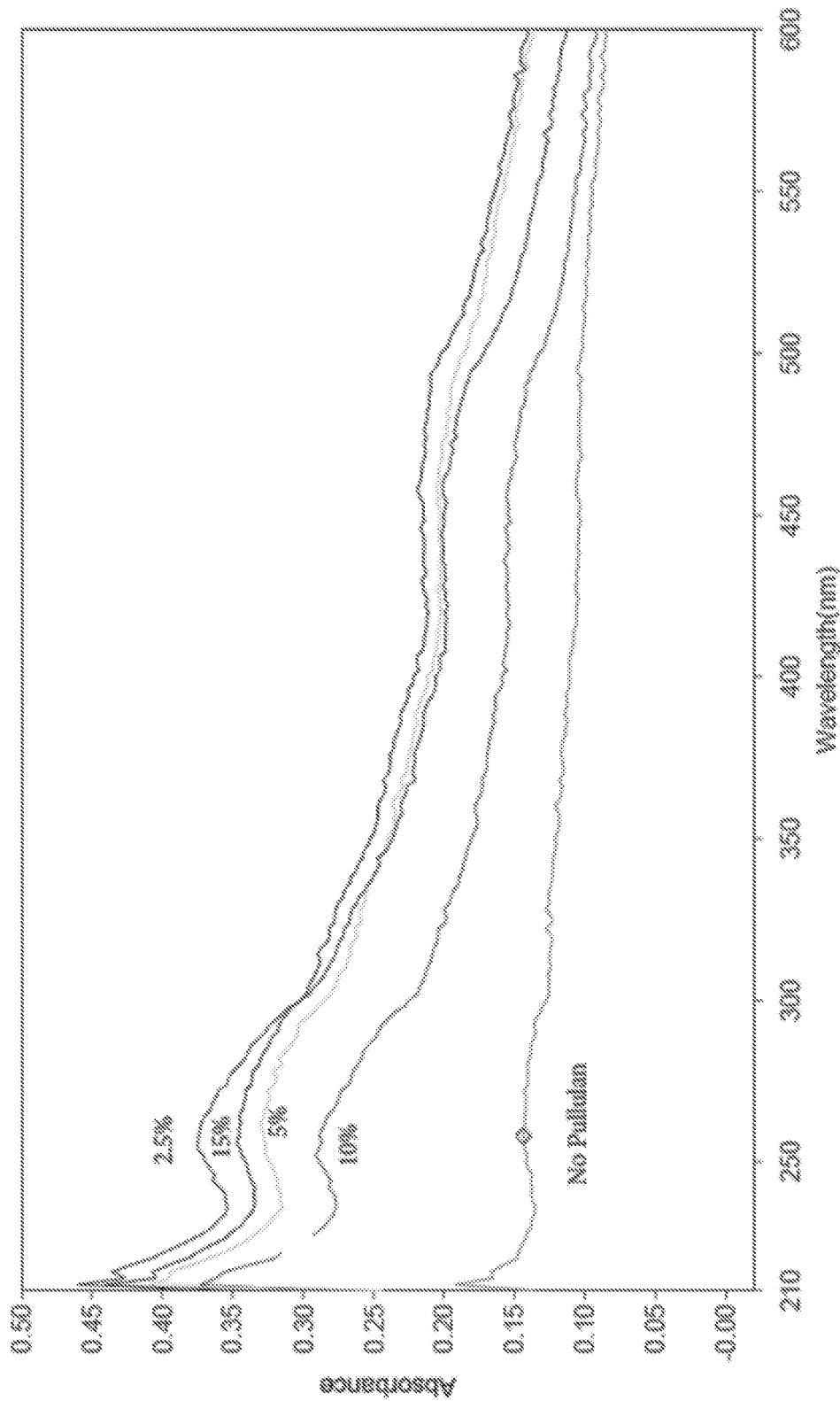


FIG. 4C

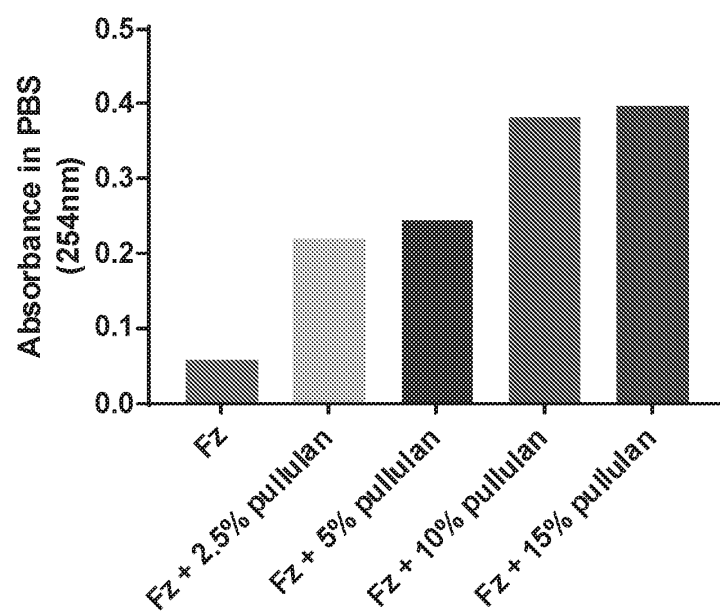


FIG. 5

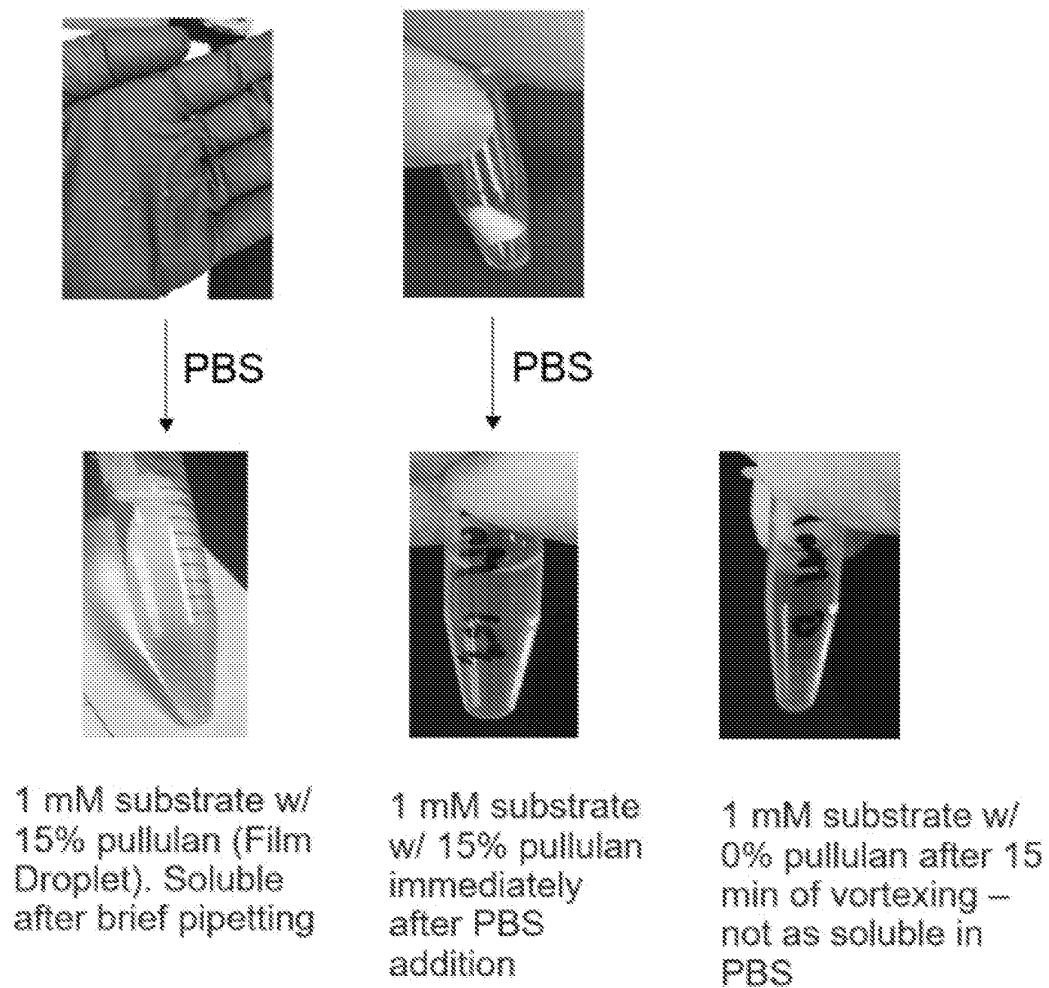
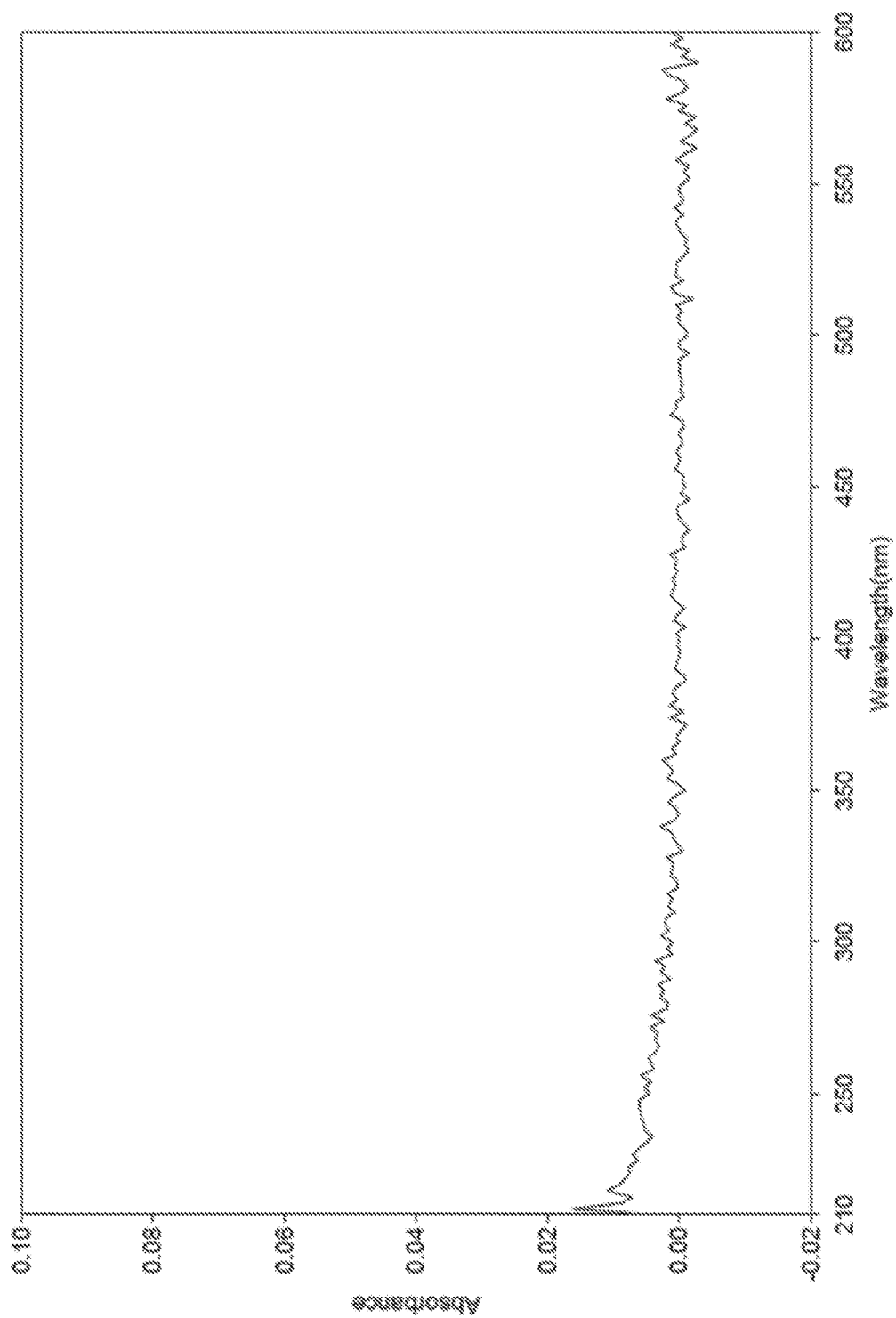


FIG. 6A



SUBSTITUTE SHEET (RULE 26)

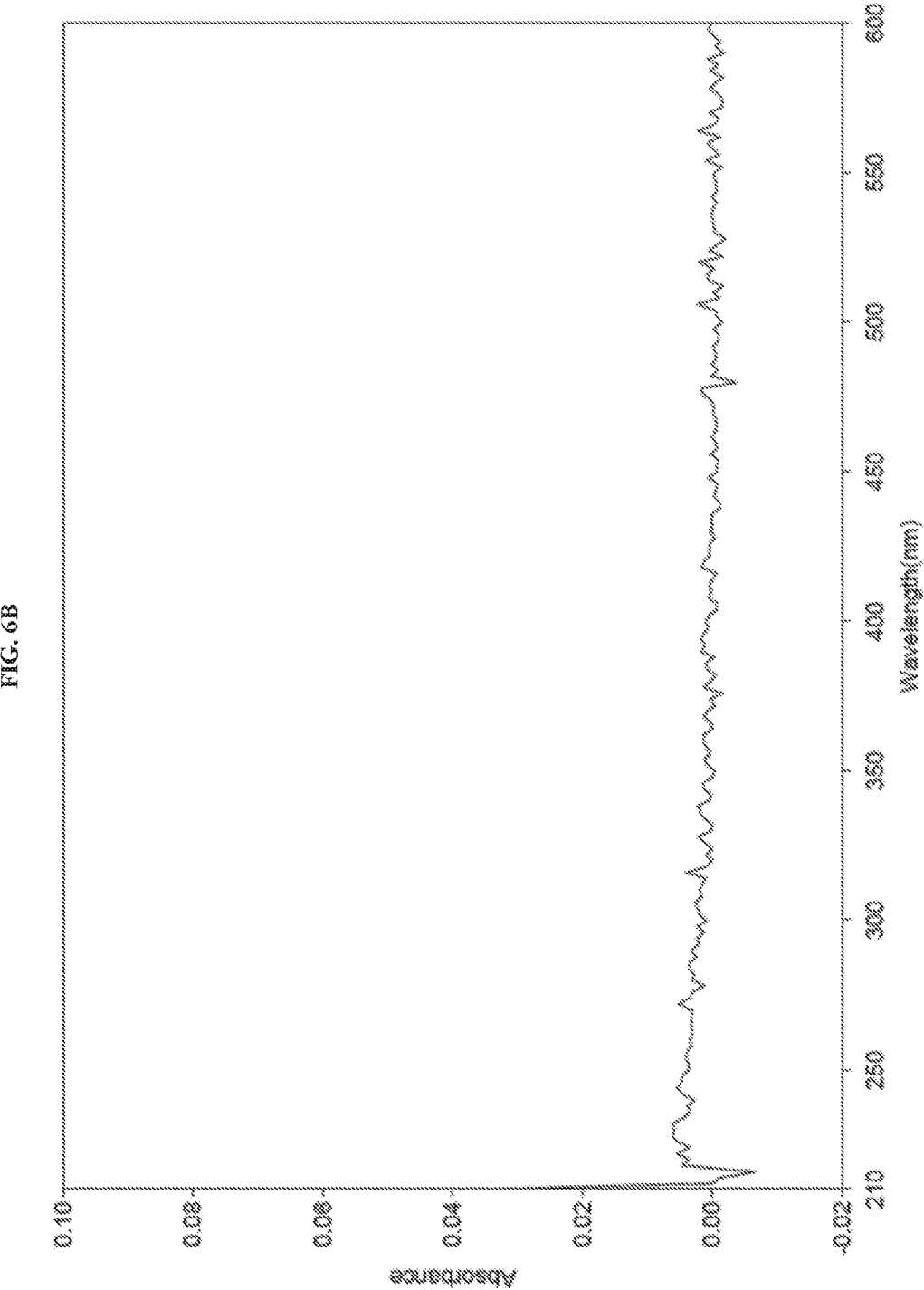


FIG. 7A

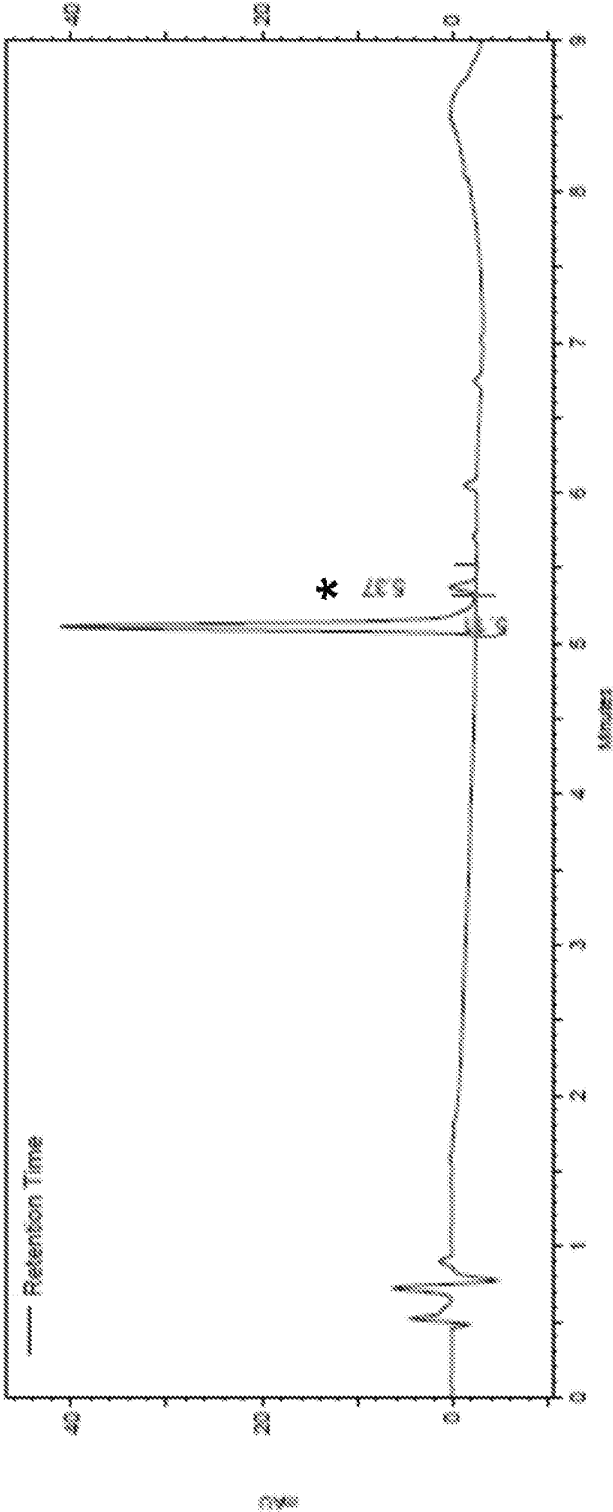


FIG. 7B

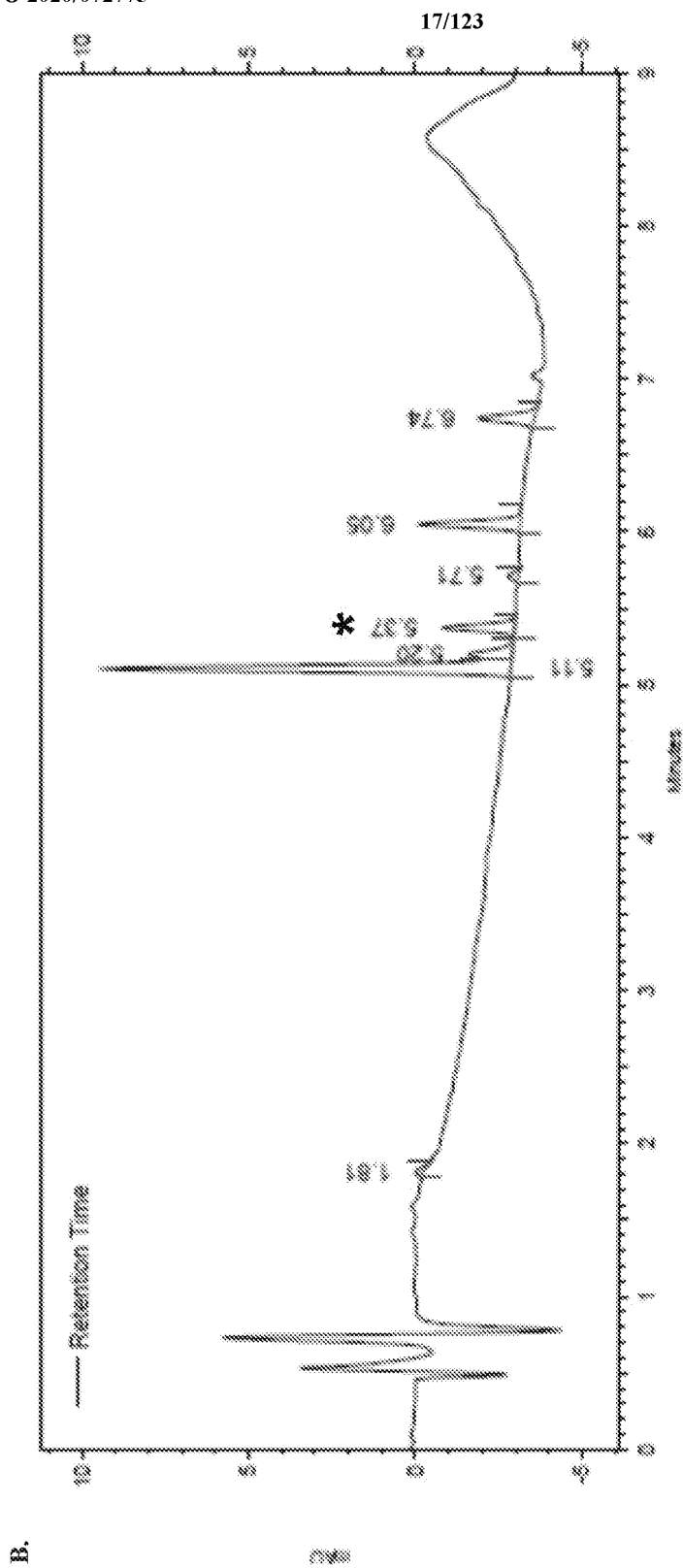


FIG. 8A

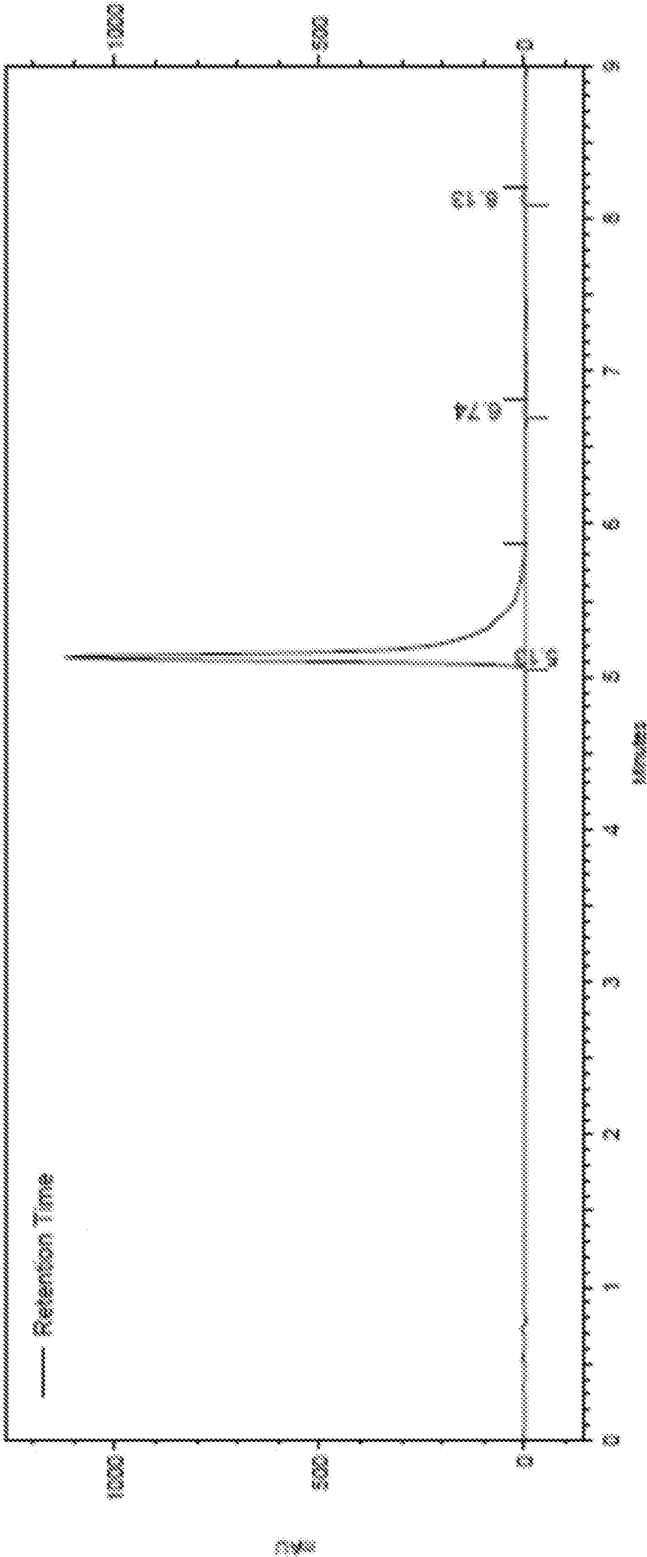


FIG. 8B

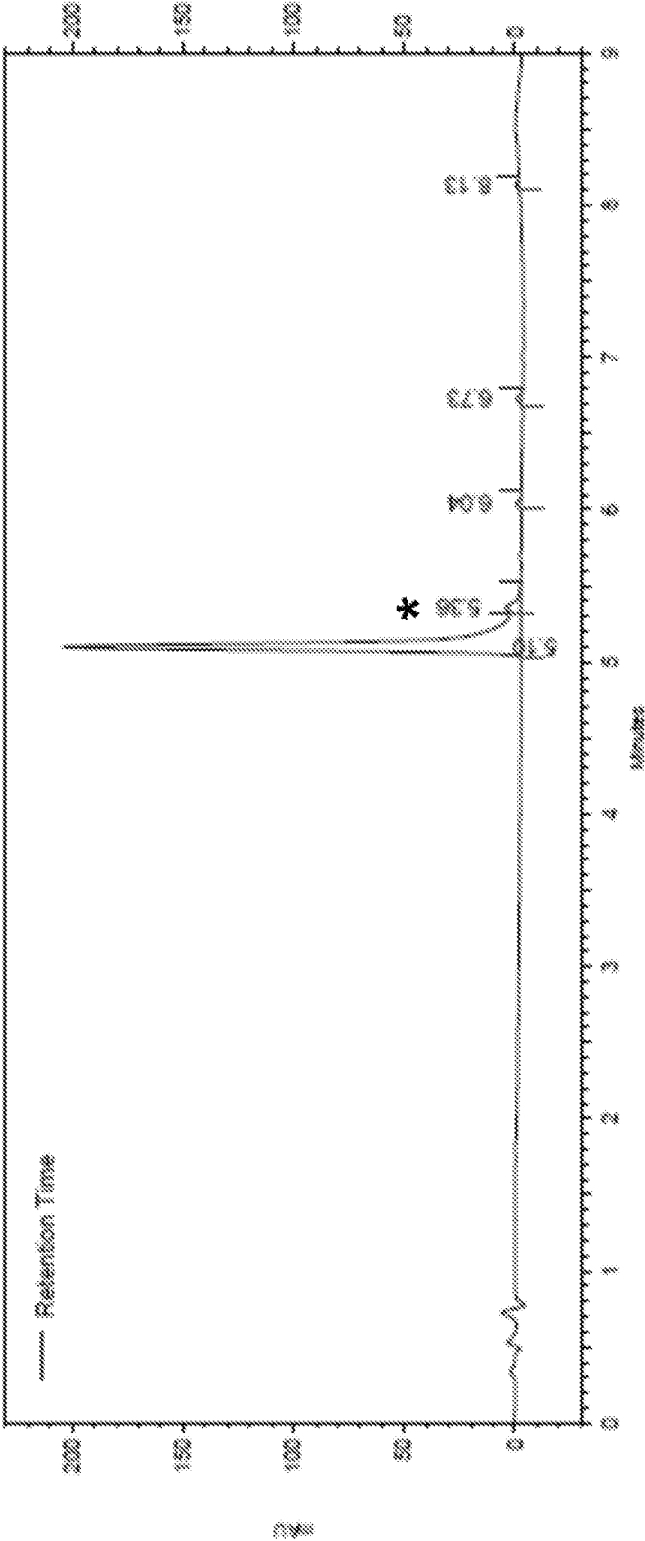


FIG. 9A

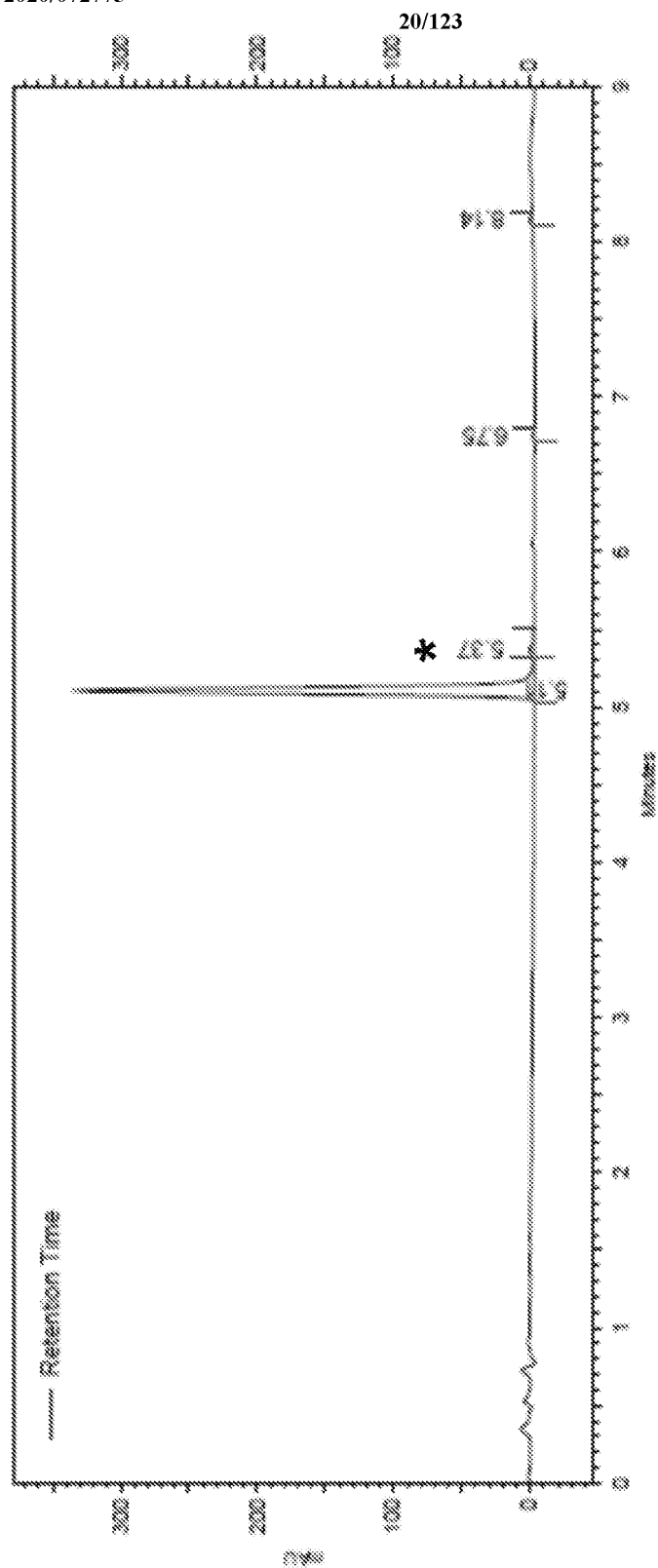


FIG. 9B

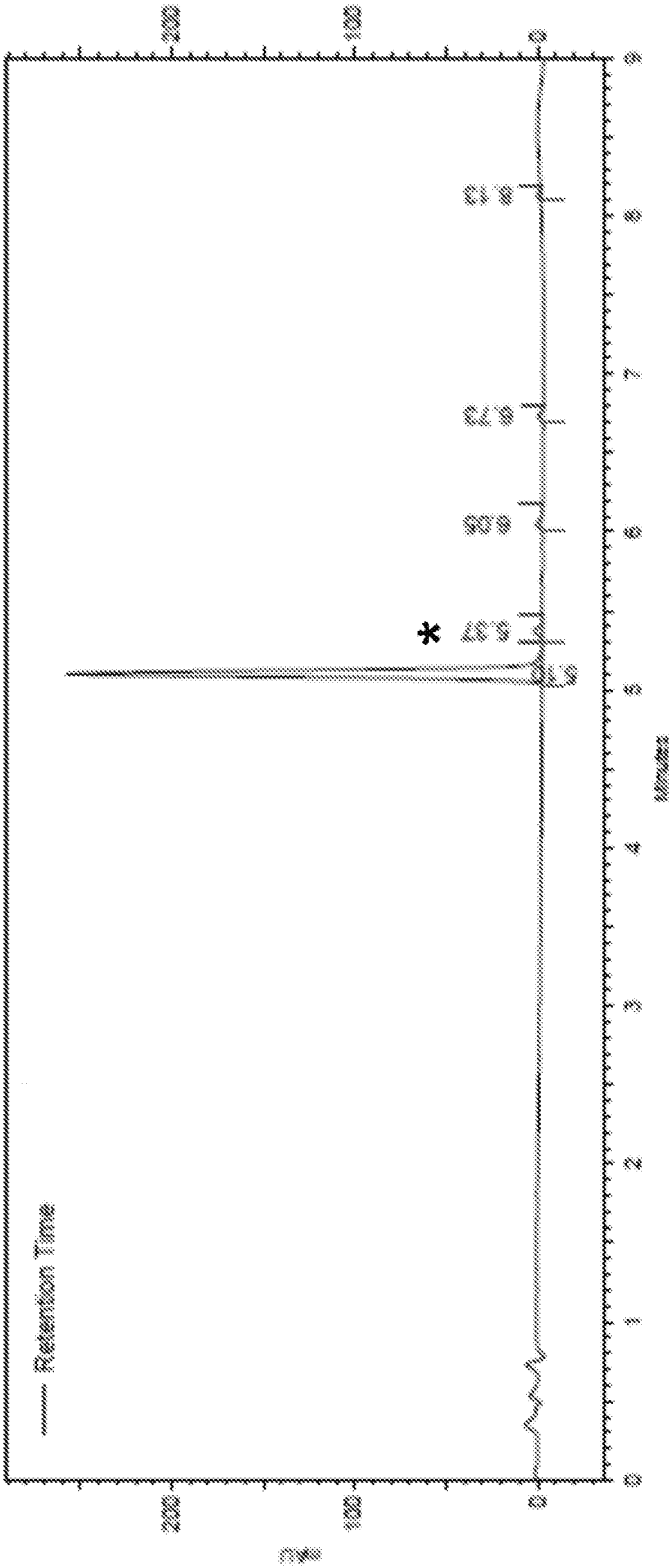


FIG. 10A

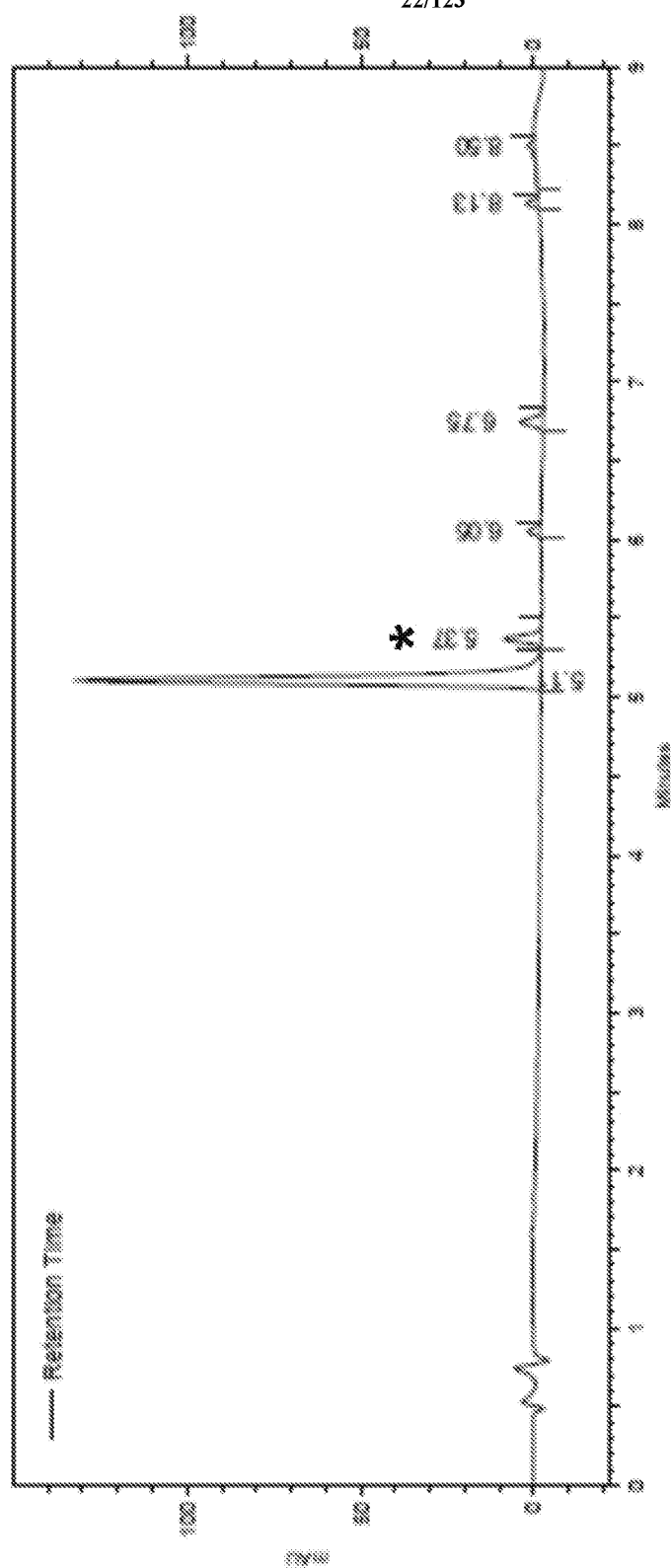


FIG. 10B

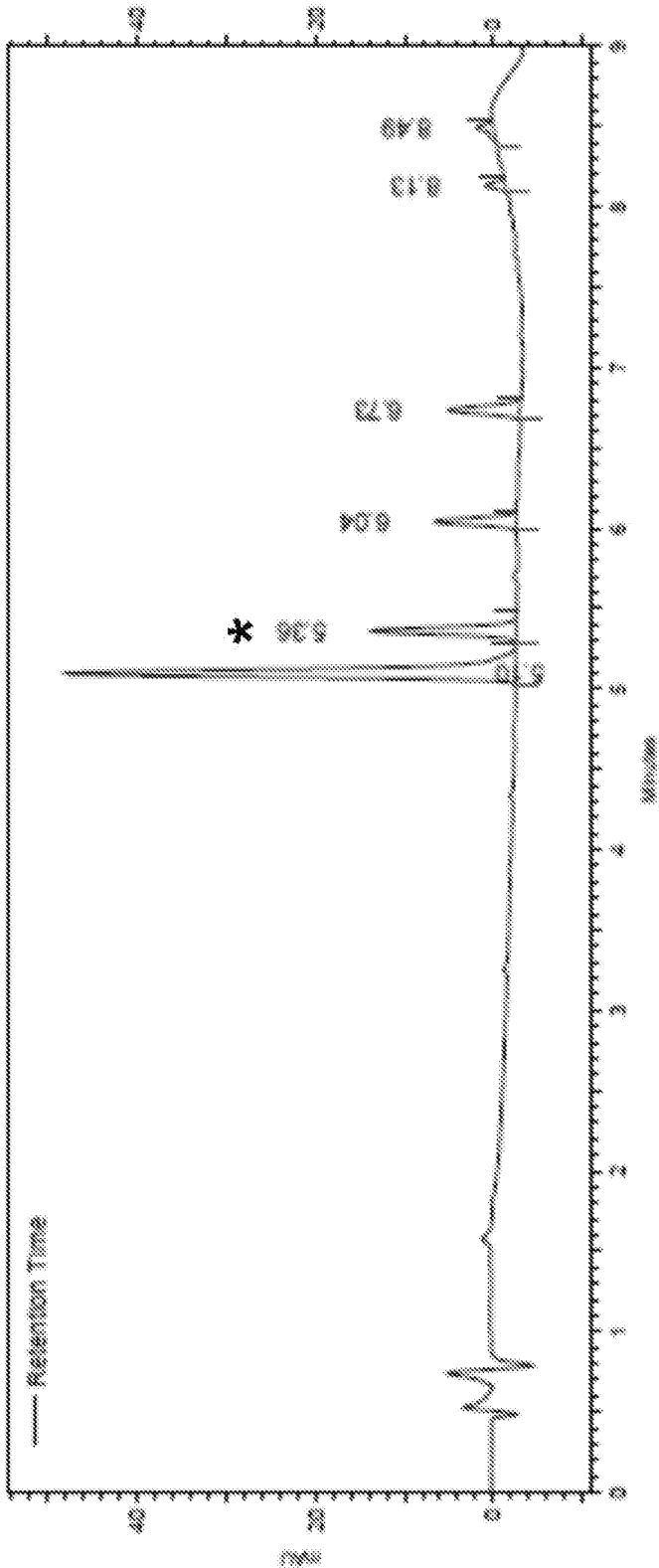


FIG. 11A

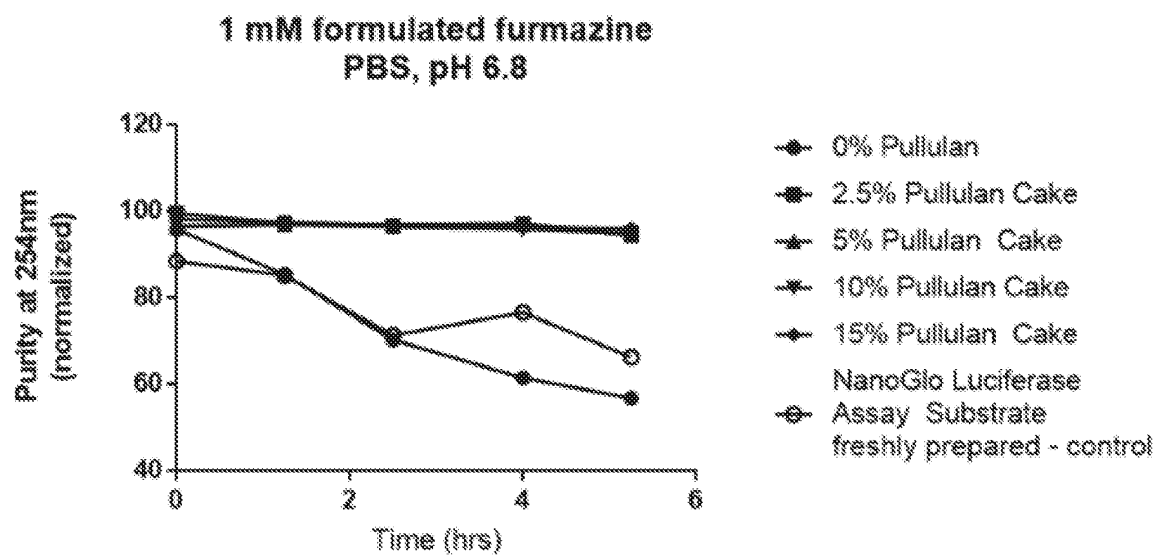


FIG. 11B

1 mM formulated furmazine
PBS, pH 6.8

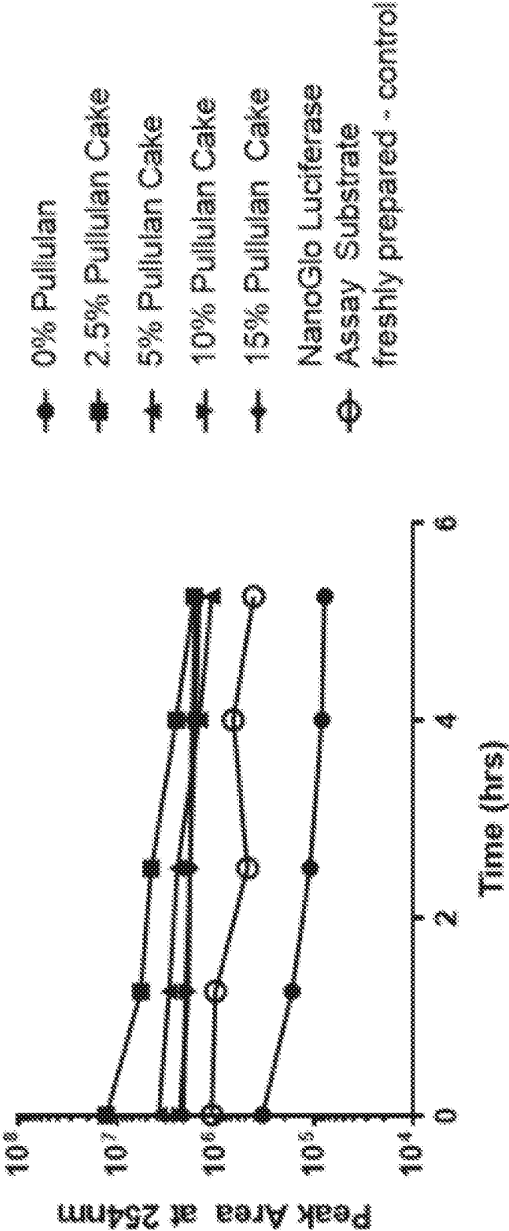


FIG. 12

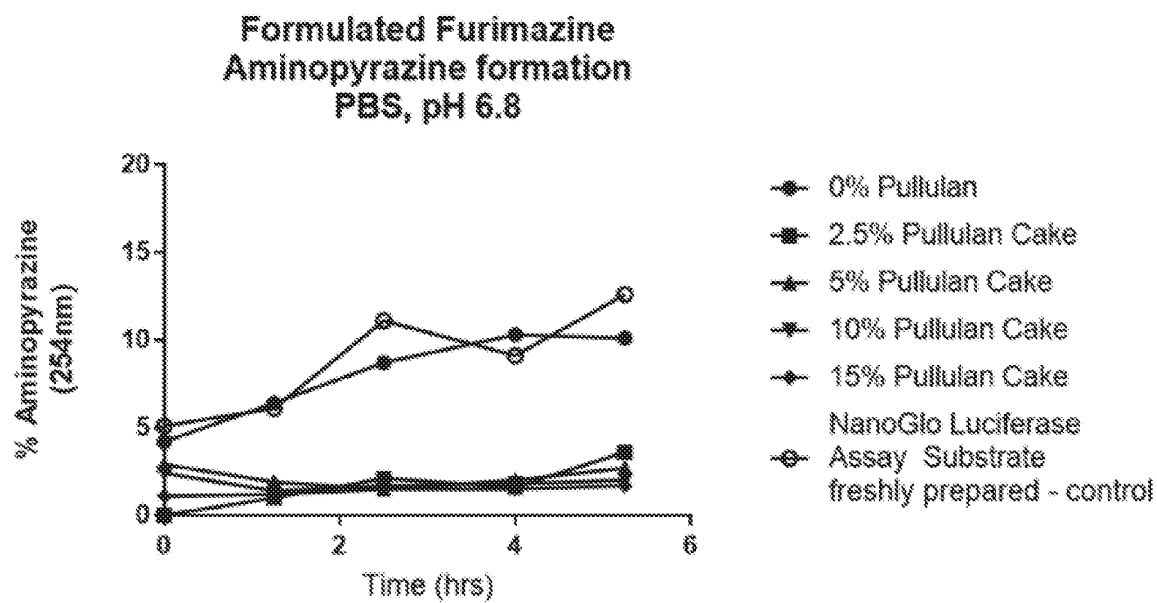


FIG. 13A

Substrate Formulations in
Solid Paper Matrix
PBS, pH 7.0
2 ng/ml NanoLuc enzyme

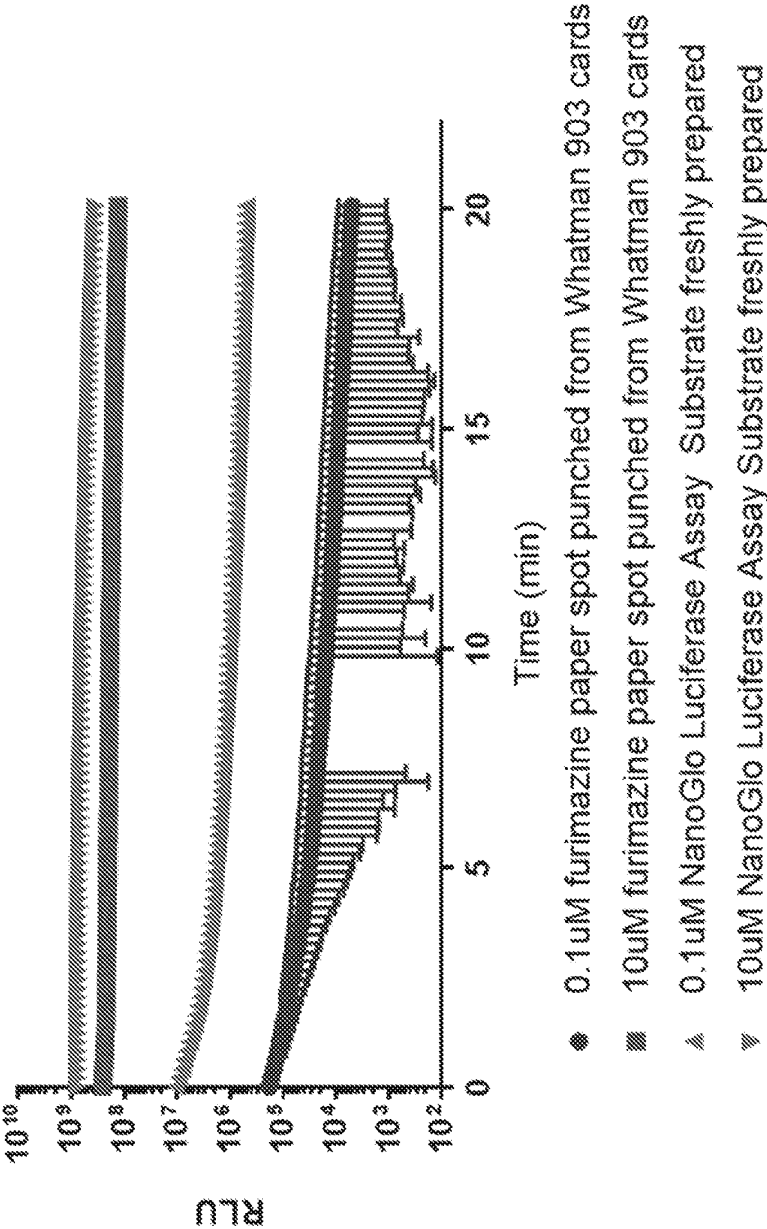


FIG. 13B

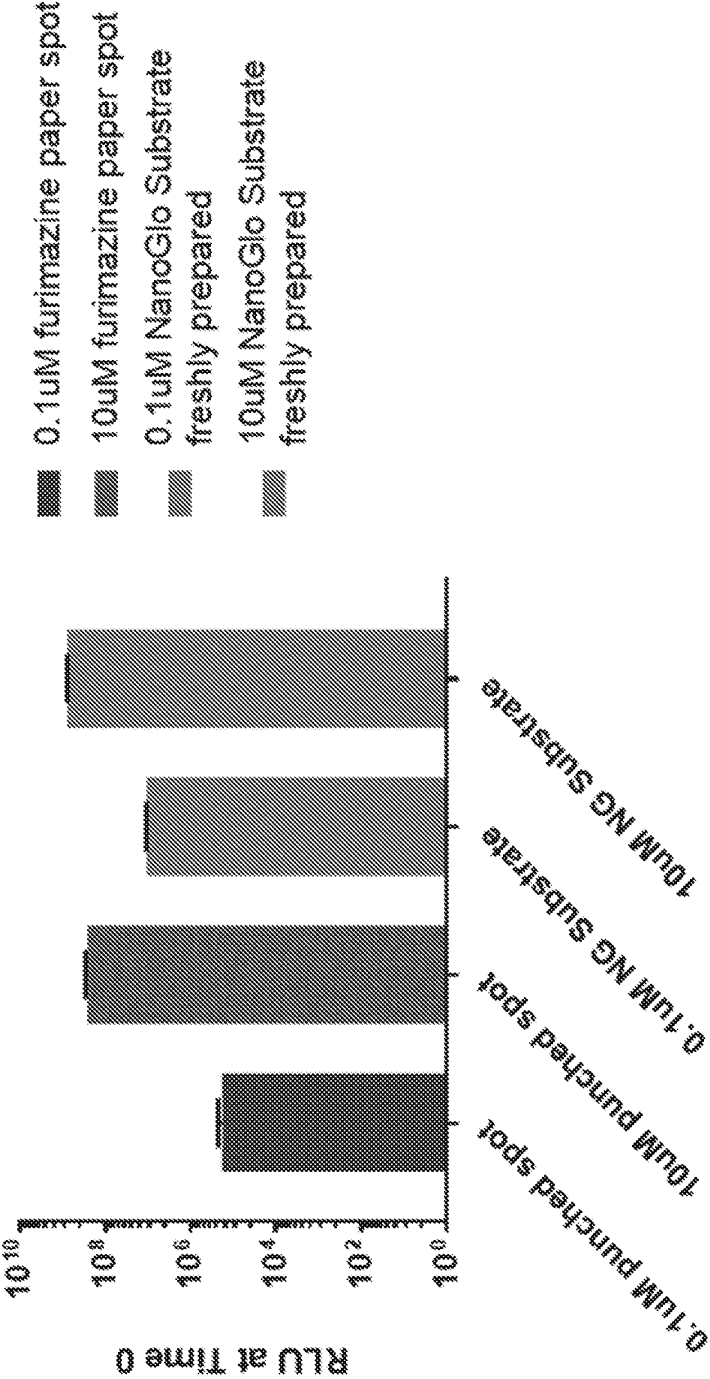


FIG. 13C



FIG. 14

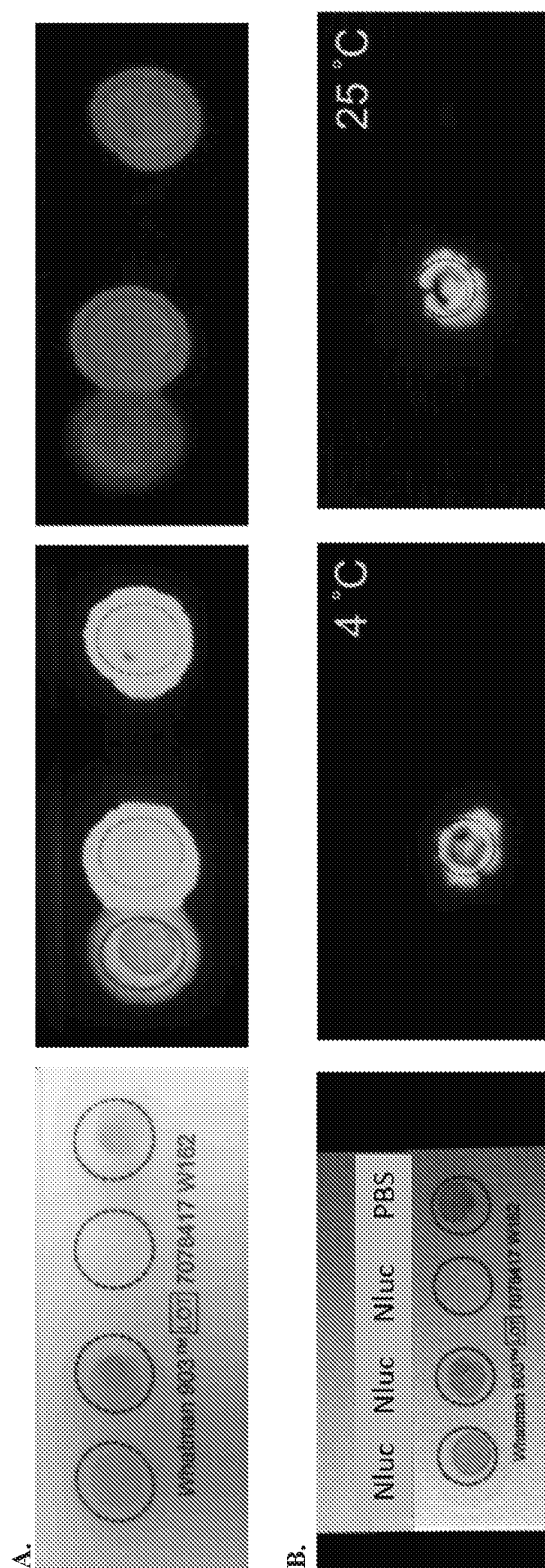
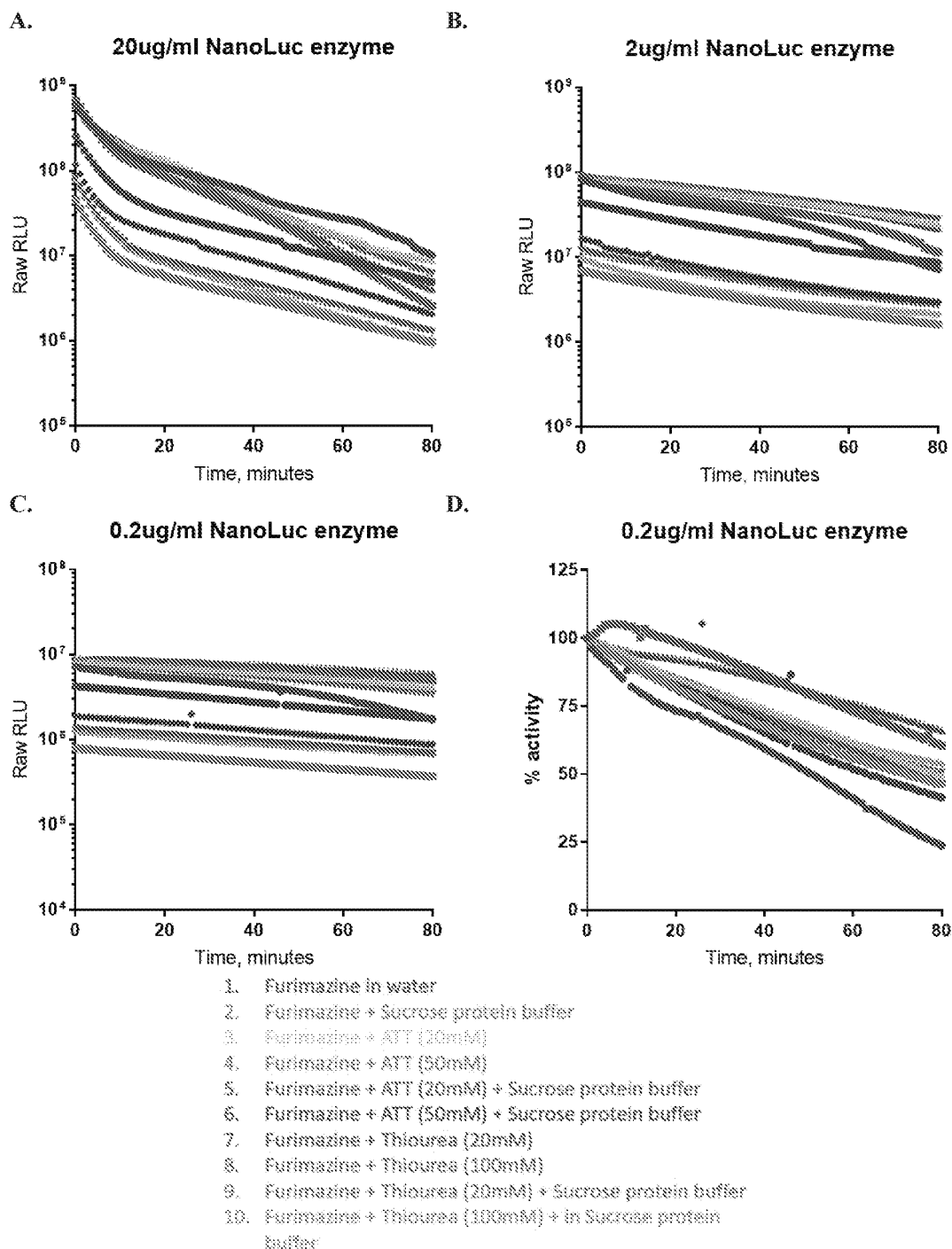


FIG. 15



SUBSTITUTE SHEET (RULE 26)

FIG. 16

Formulated Furimazine in
Solid Paper Matrices - Whatman 903 card punches
PBS, pH 7.0
2 ng/ml NanoLuc enzyme

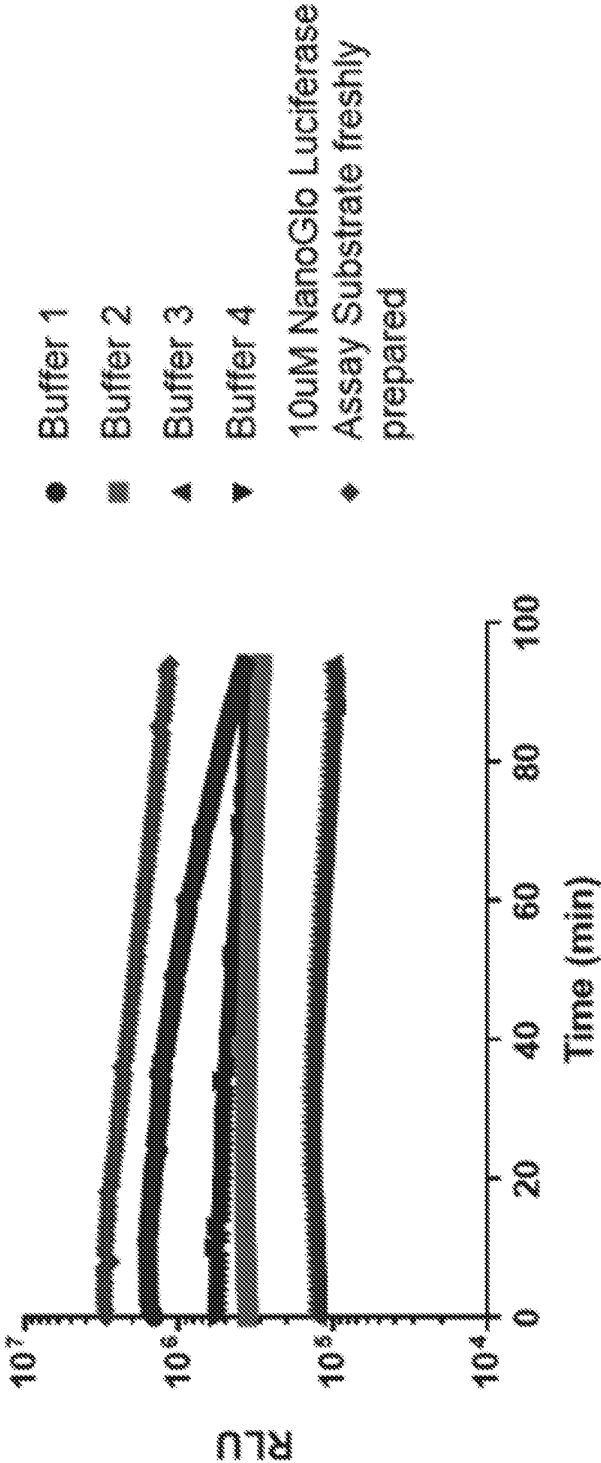
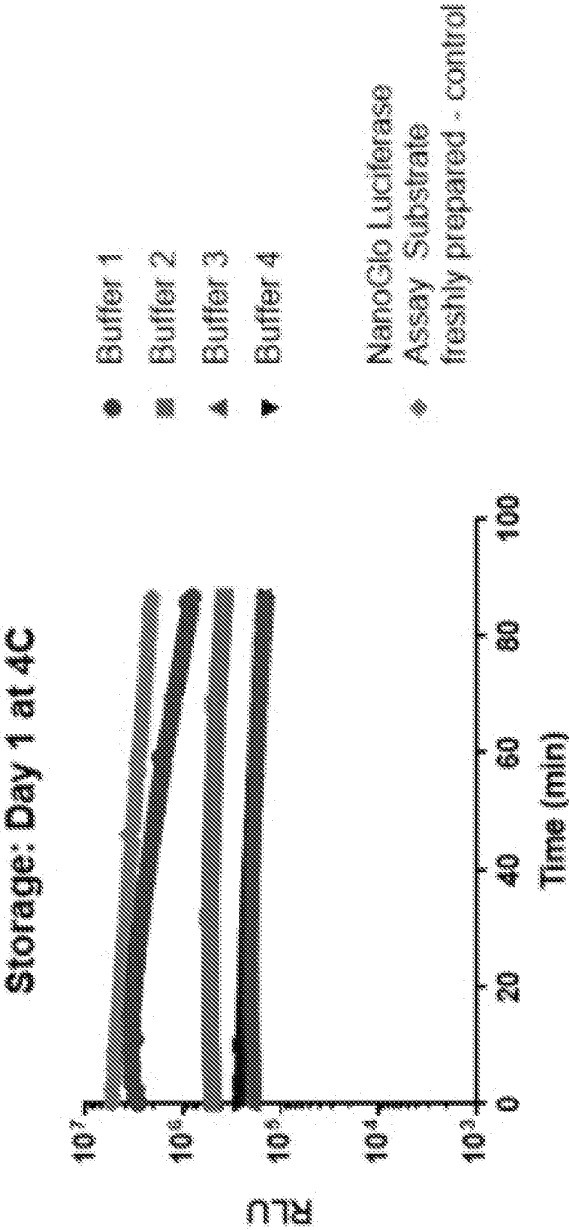
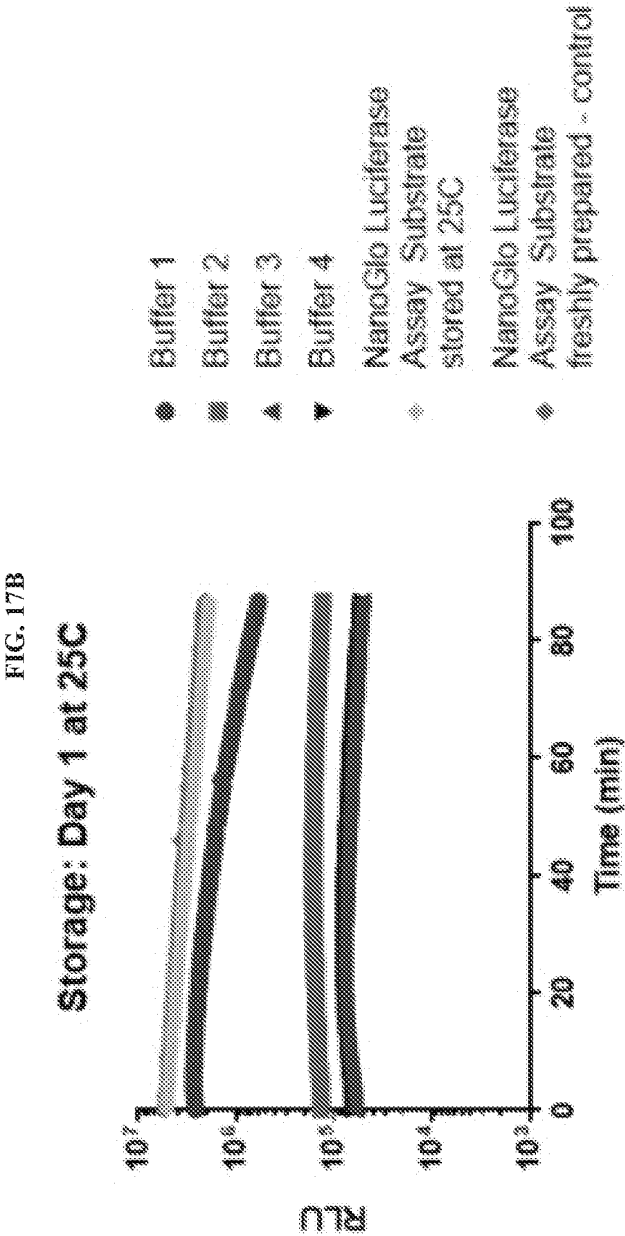


FIG. 17A





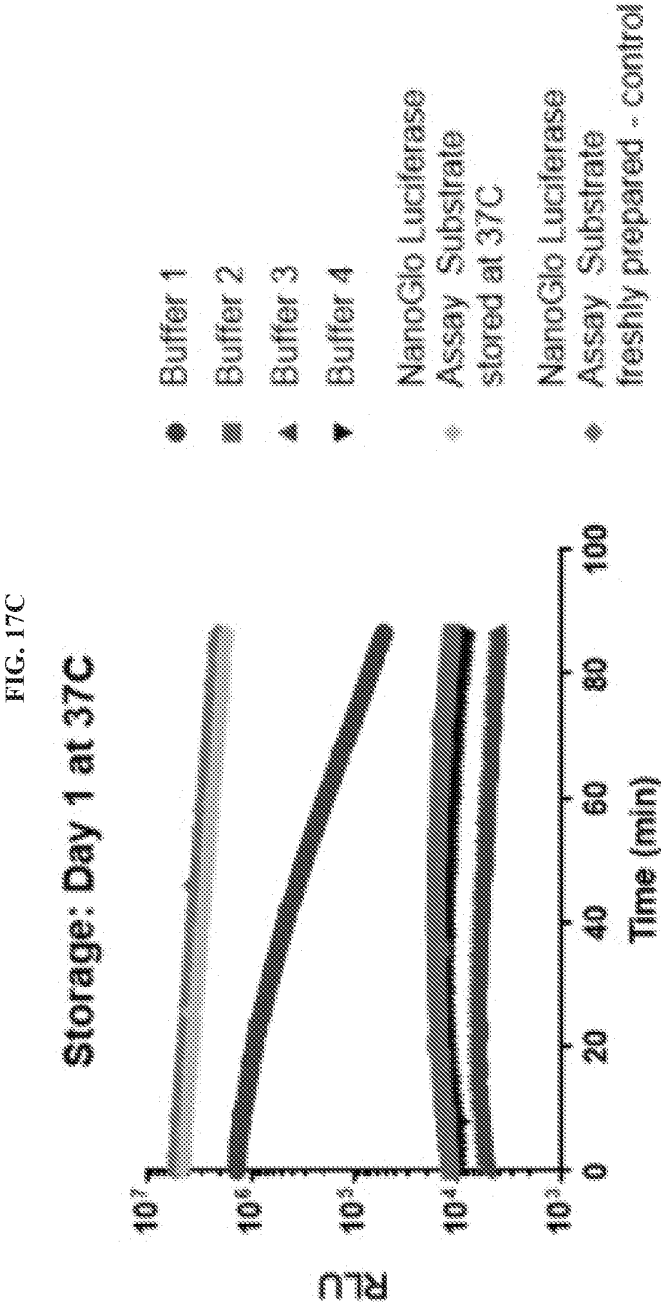


FIG. 18A

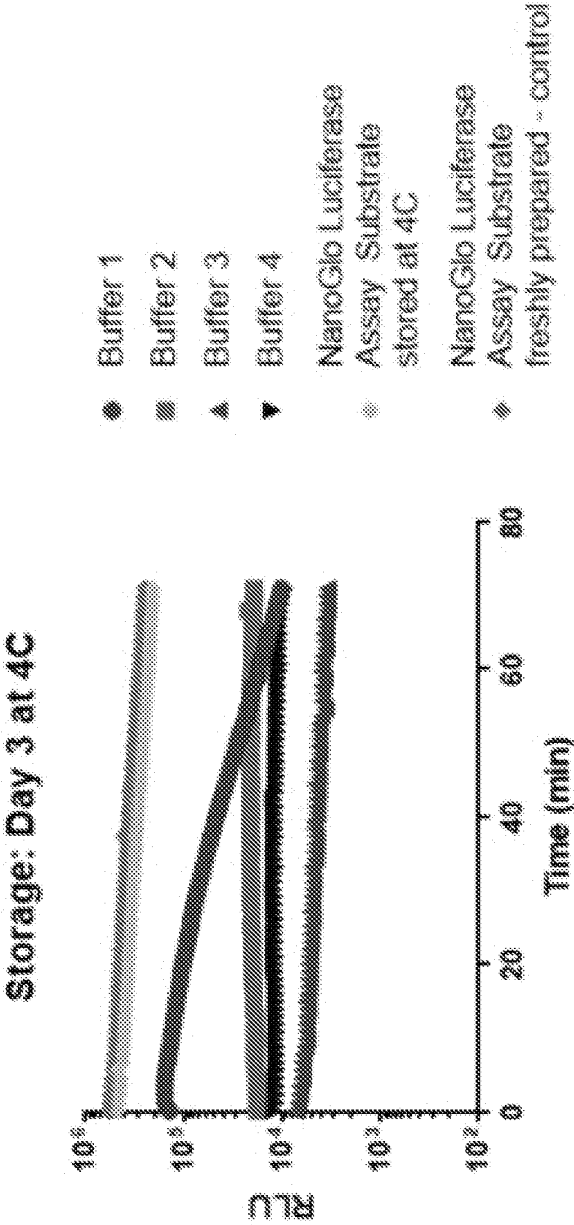


FIG. 18B

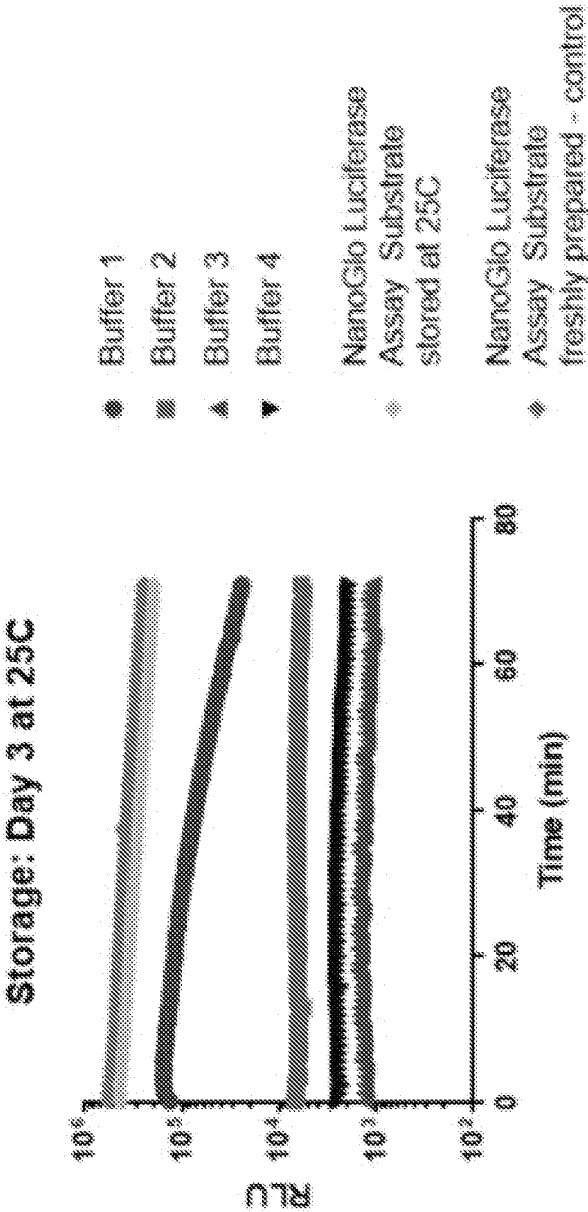


FIG. 18C

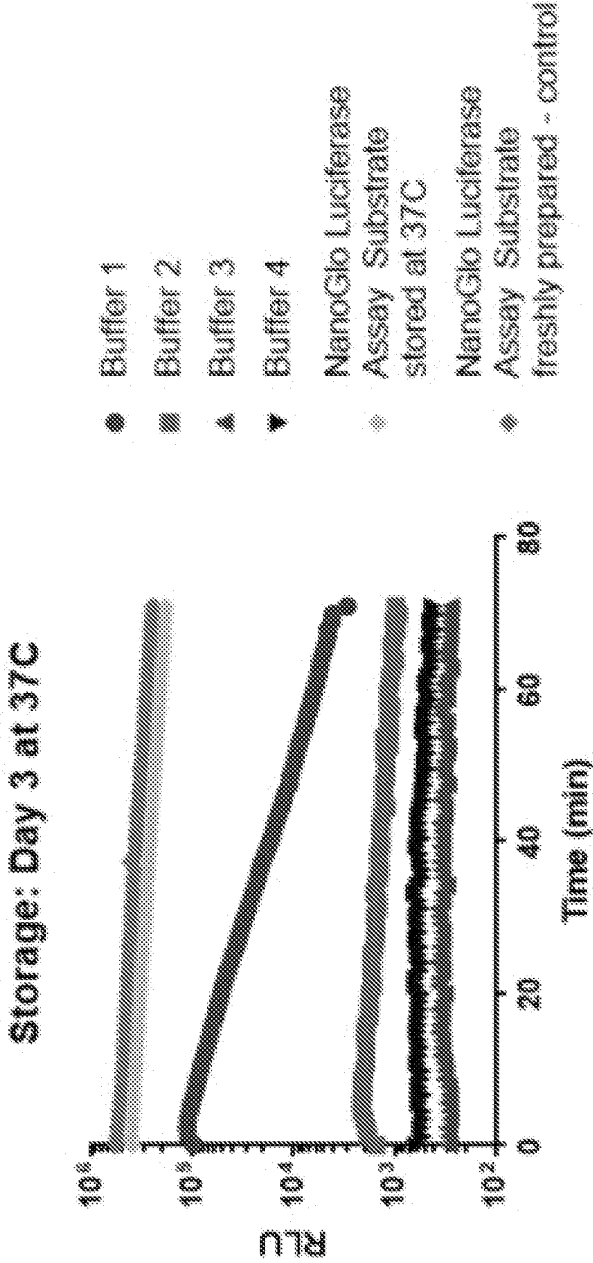


FIG. 19A

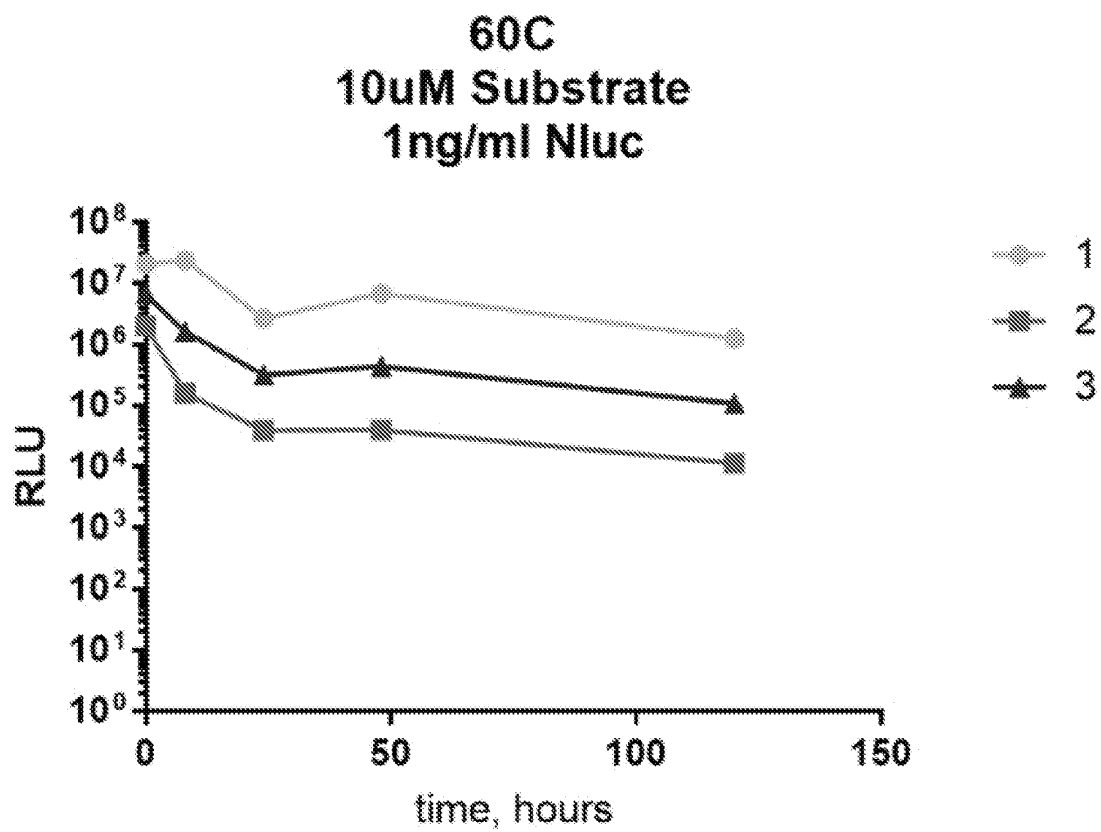


FIG. 19B

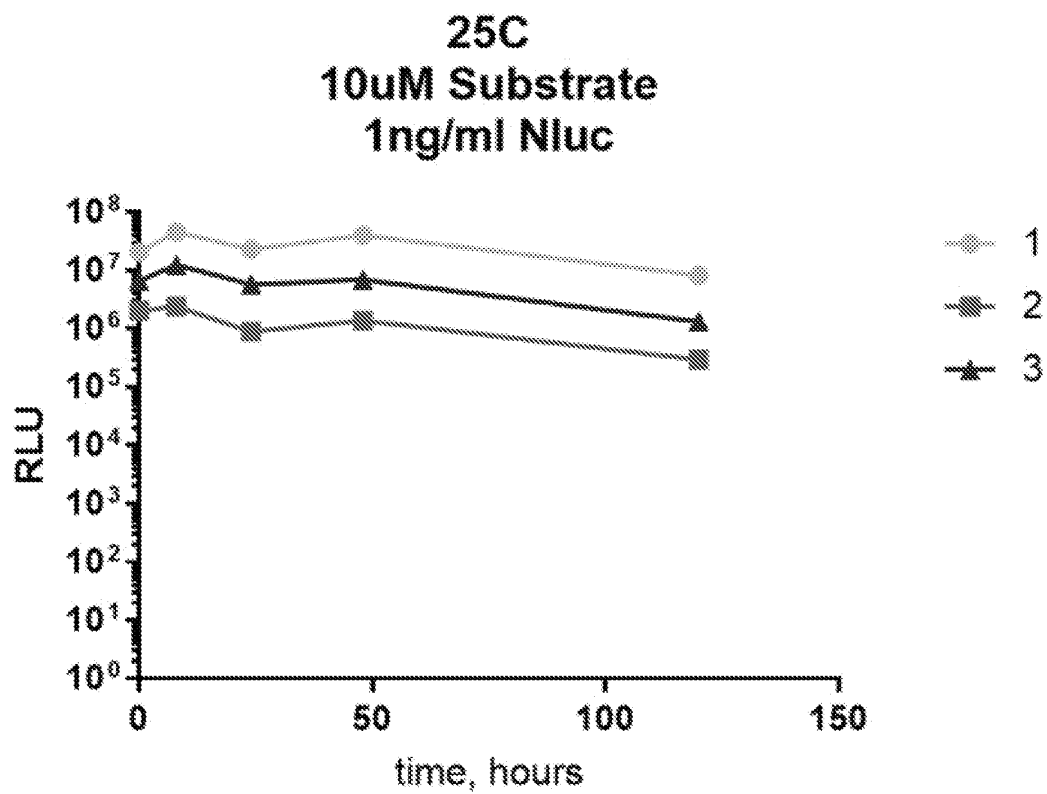


FIG. 19C

60C
10uM Substrate
1ng/ml Nluc

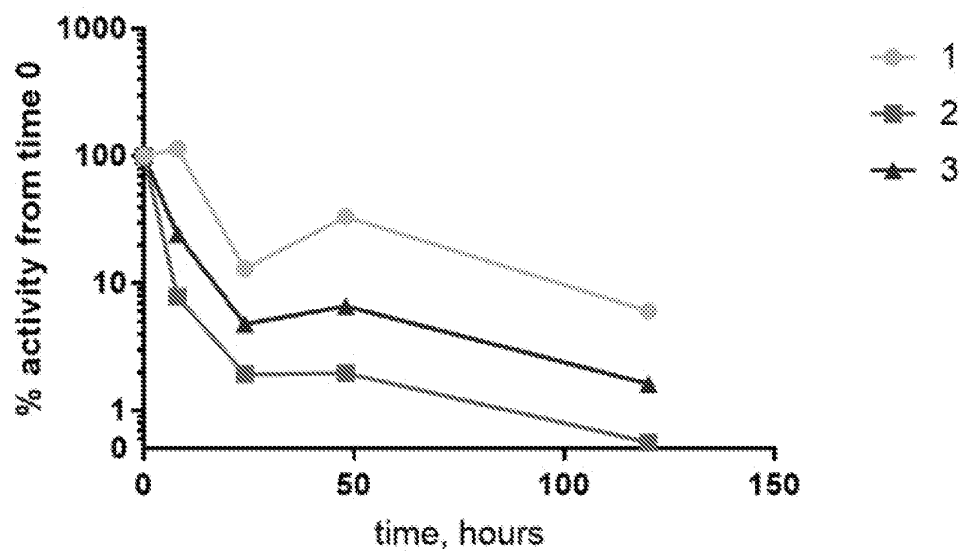


FIG. 19D

25C
10uM Substrate
1ng/ml Nluc

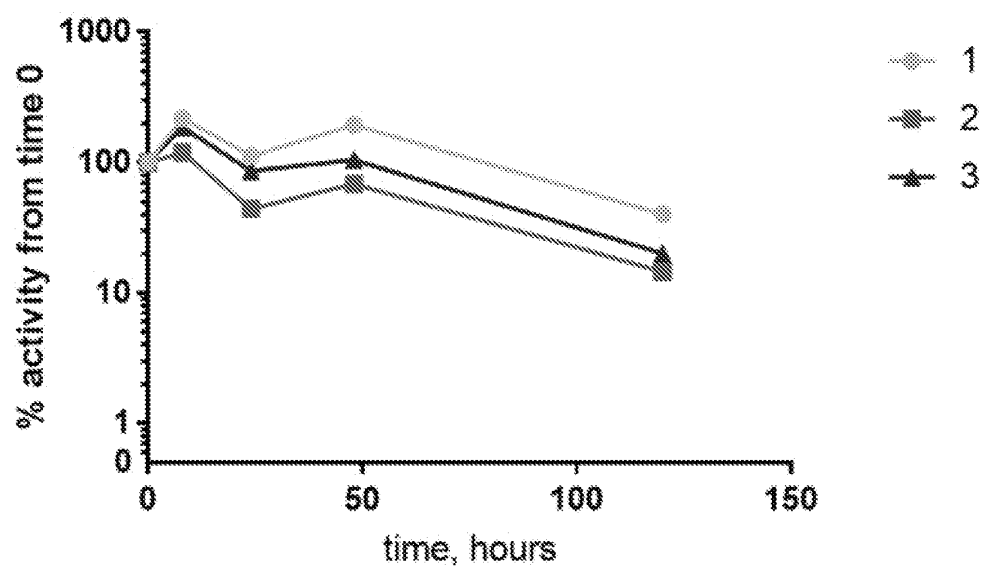


FIG. 20A
Storage Temp 25C
Substrate formulations into paper
2ng/ml Nluc
PBS, pH 7.0 assay buffer

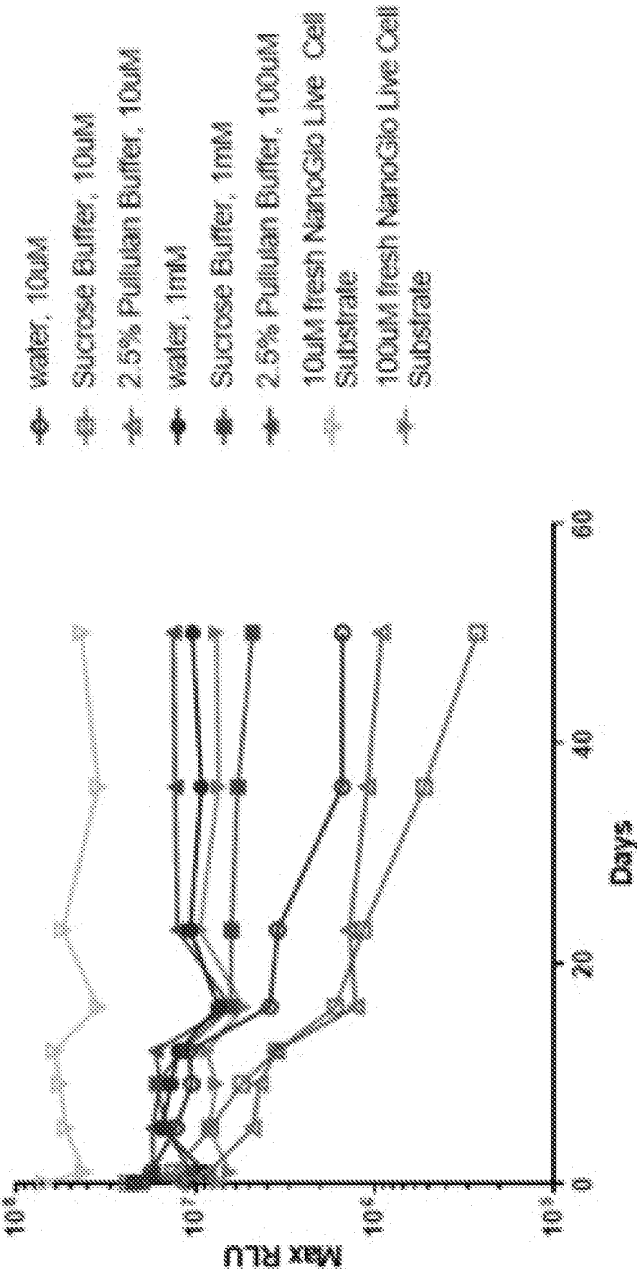


FIG. 20B

Storage Temp 60C

Substrate formulations into paper

2ng/ml Niluc

PBS, pH 7.0 assay buffer

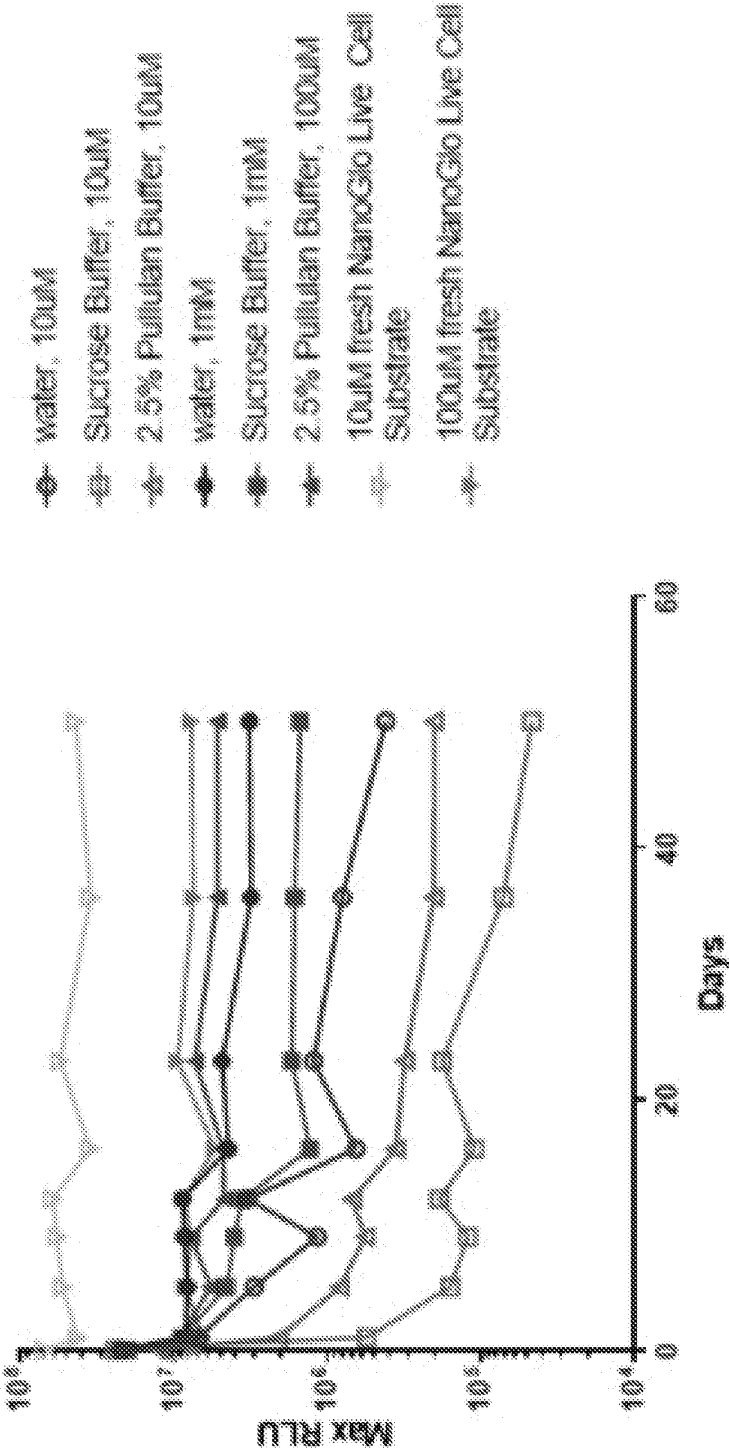


FIG. 20C
Storage Temp 25C
Substrate formulations into paper
2ng/ml Nluc
PBS, pH 7.0 assay buffer

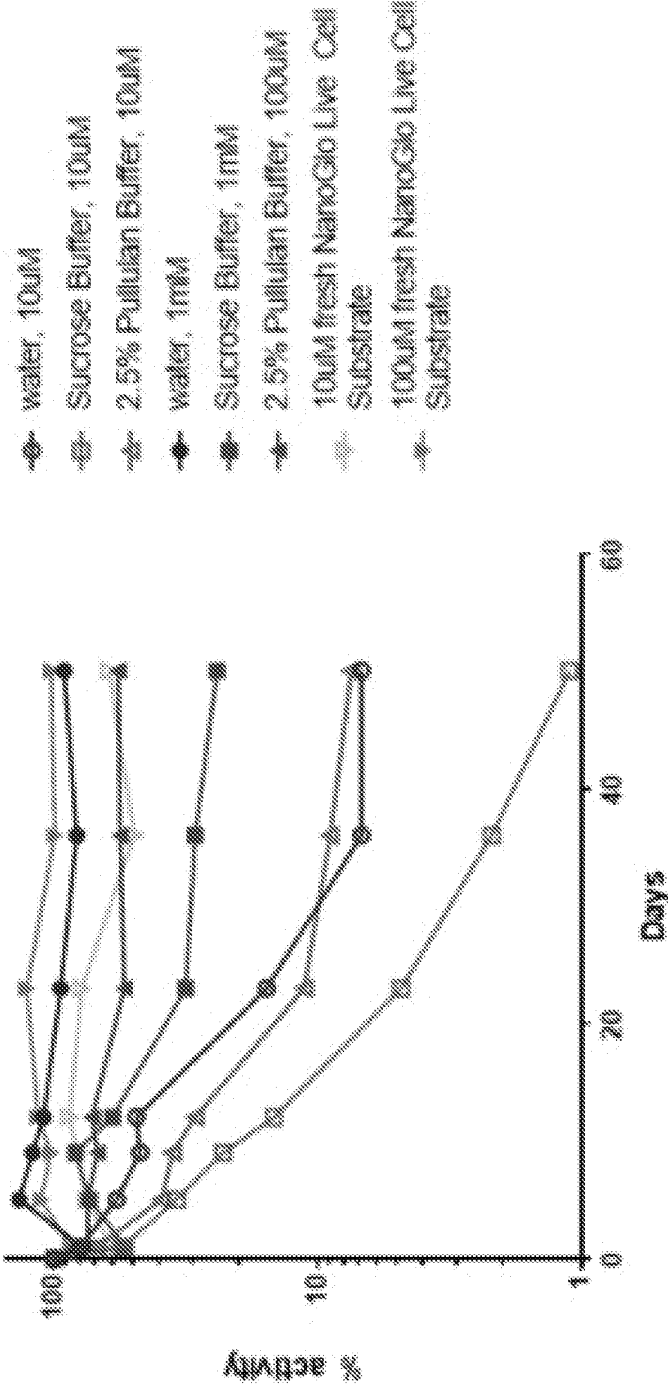


FIG. 20D
Storage Temp 60C
Substrate formulations into paper
2ng/ml Niluc
PBS, pH 7.0 assay buffer

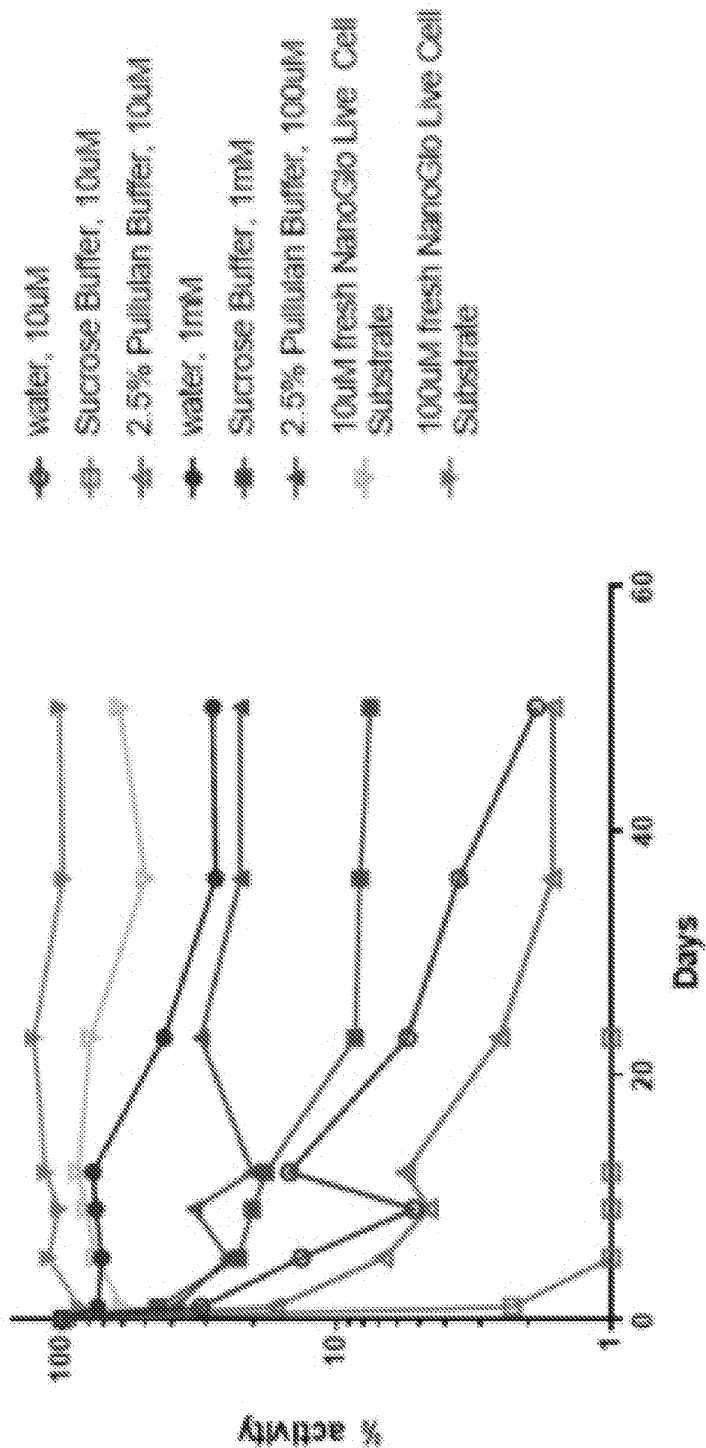


FIG. 21A

**Furimazine Compositions into Paper
Dried Under Vacuum**

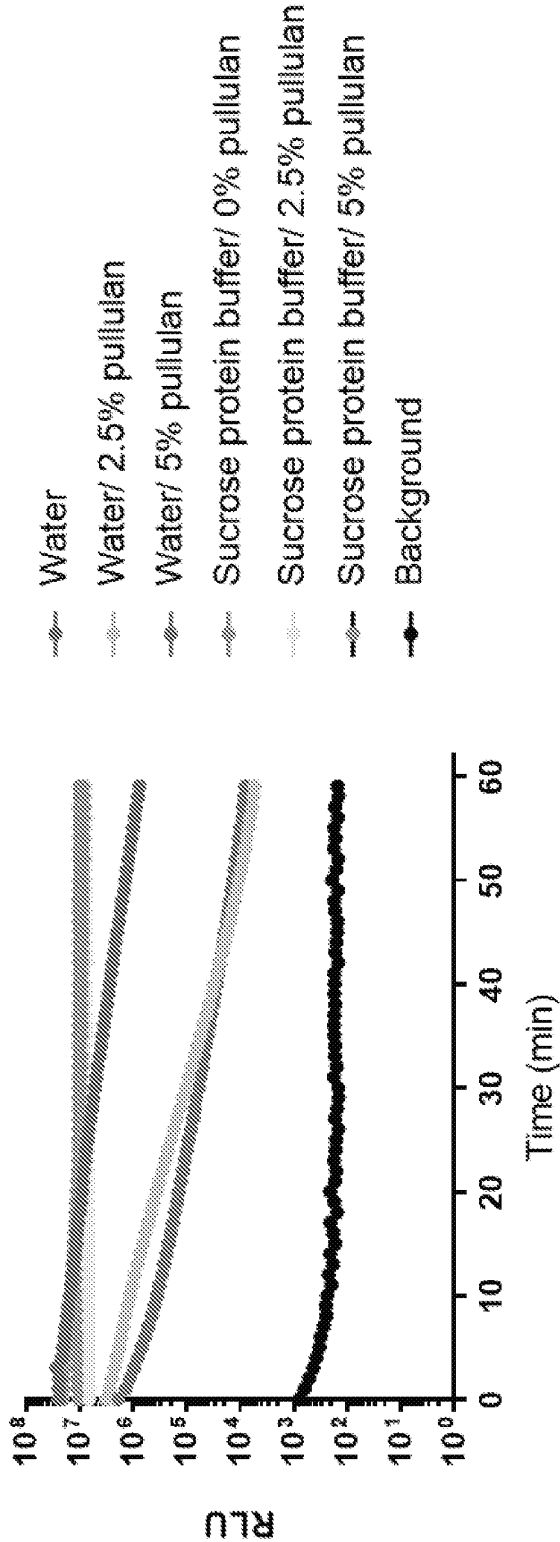


FIG. 21B
Furimazine Compositions into Paper
Dried Under Ambient Air

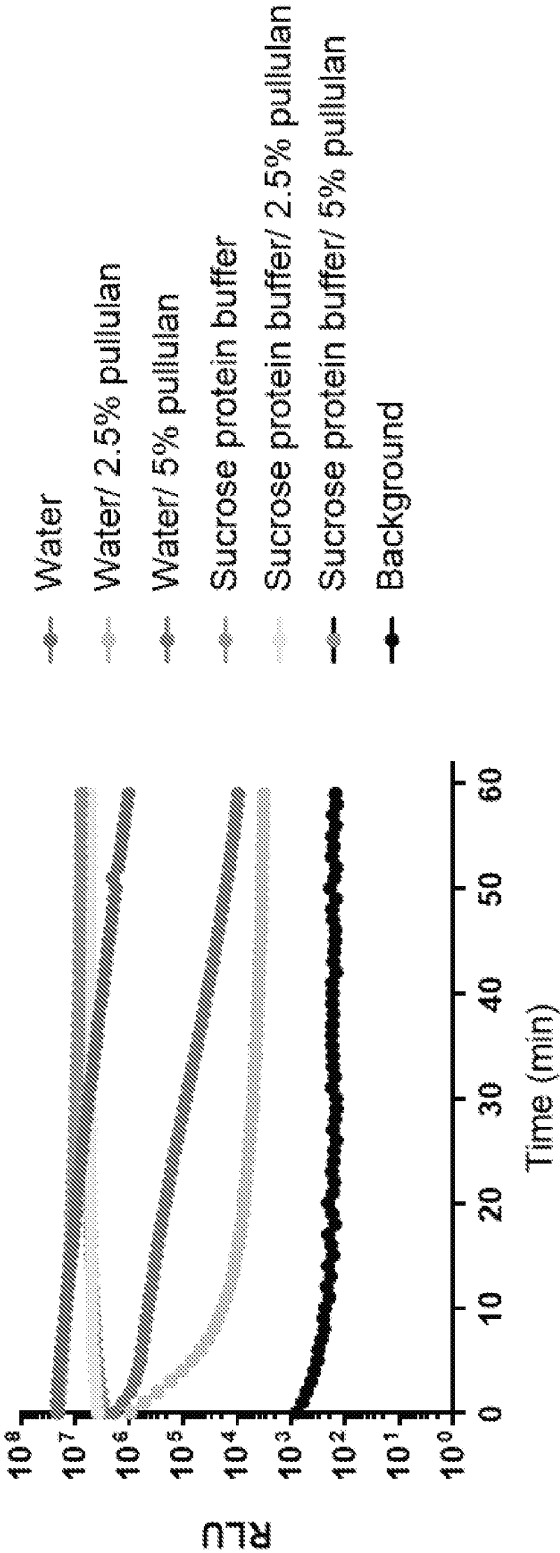


FIG. 21C

Furimazine compositions with pullulan
in Whatman 903 paper

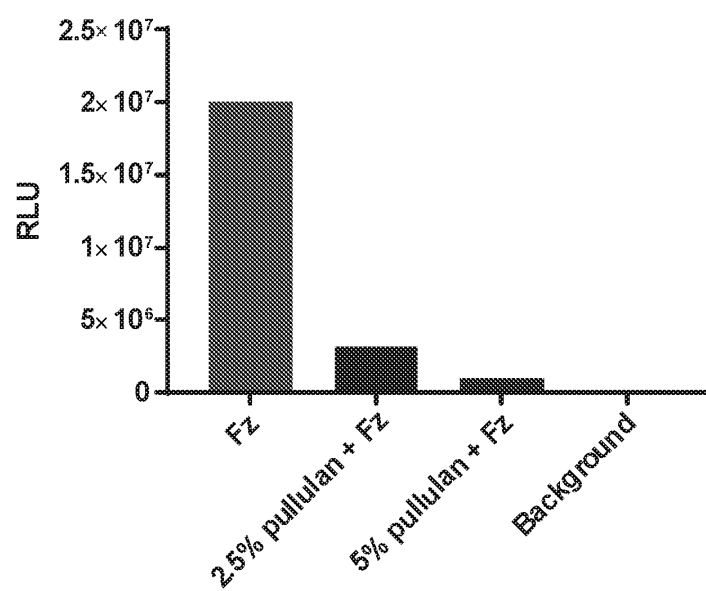
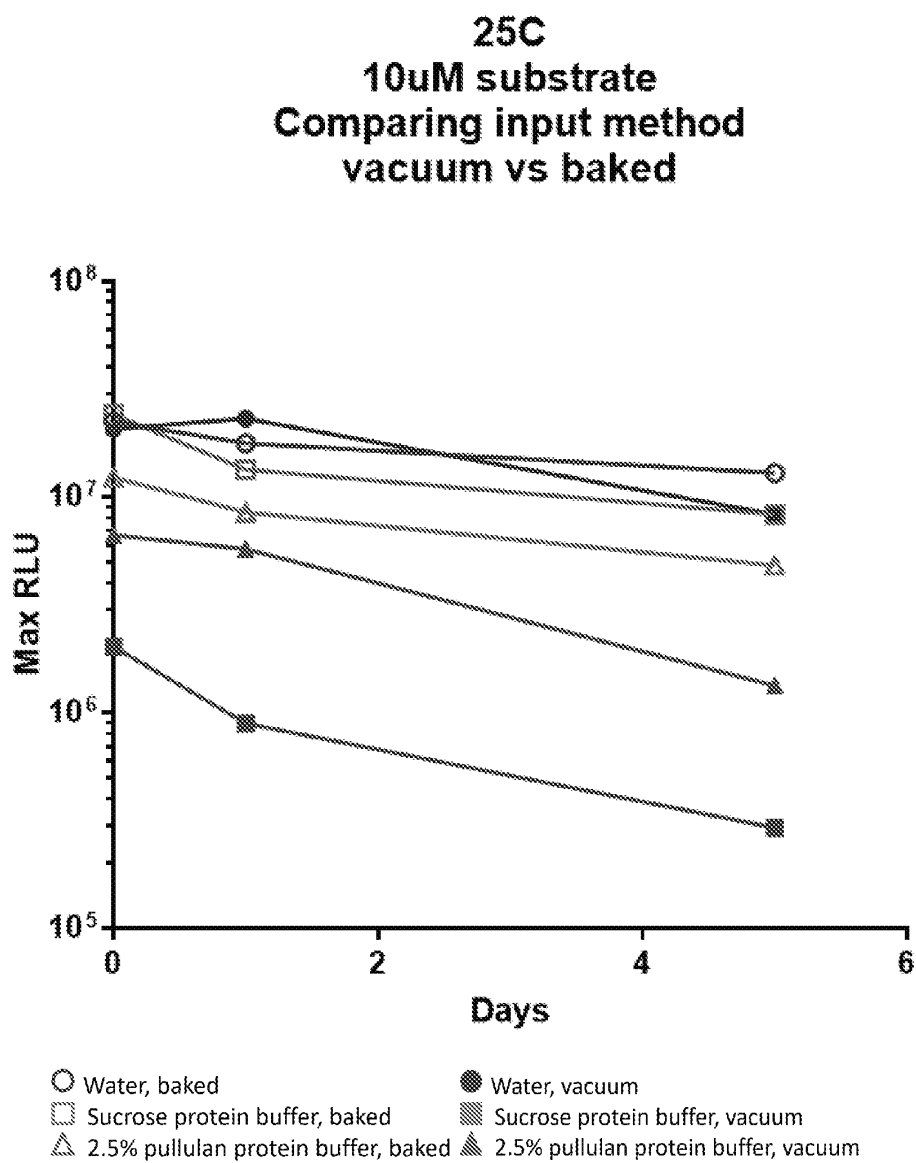


FIG. 22A



SUBSTITUTE SHEET (RULE 26)

FIG. 22B

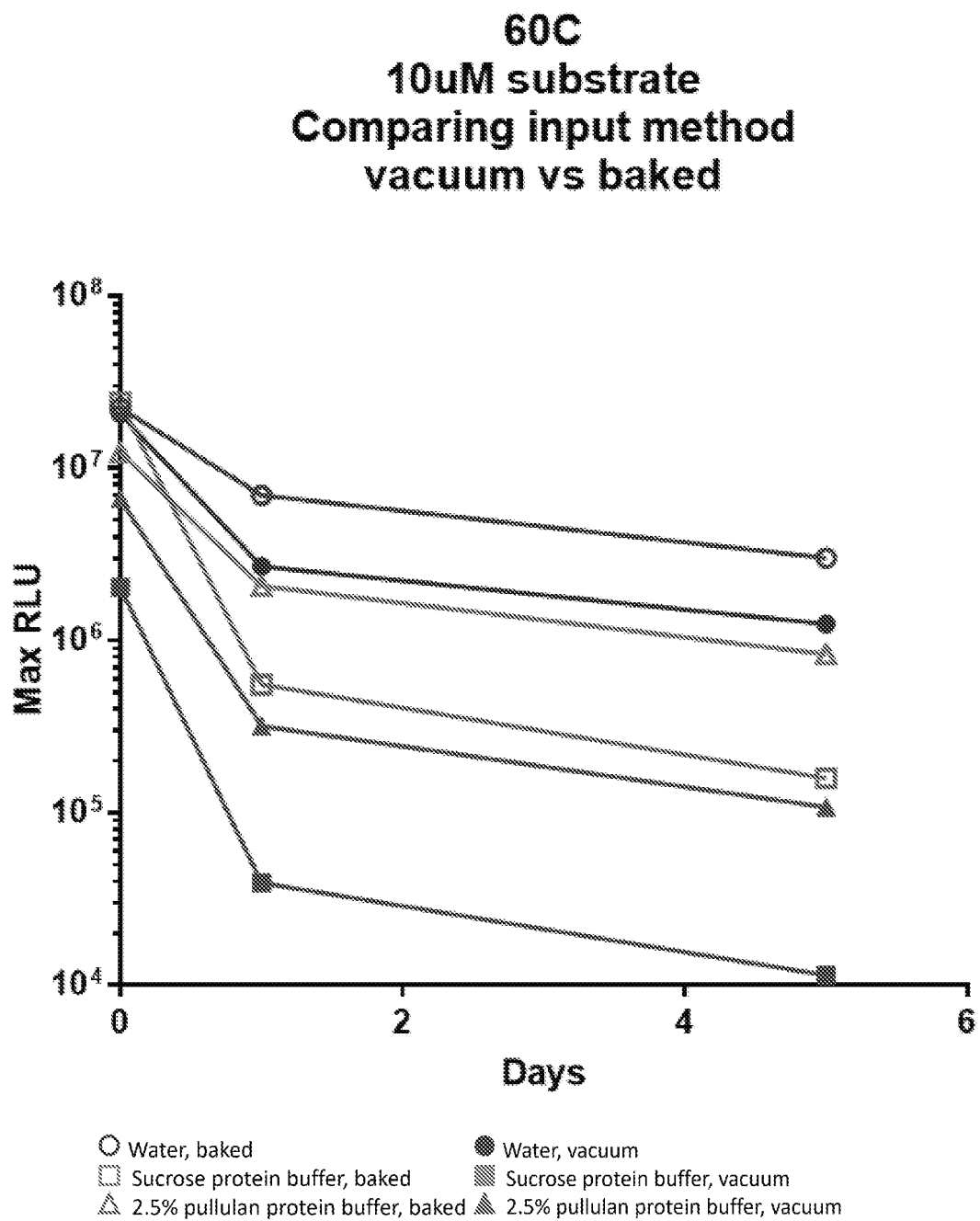


FIG. 22C

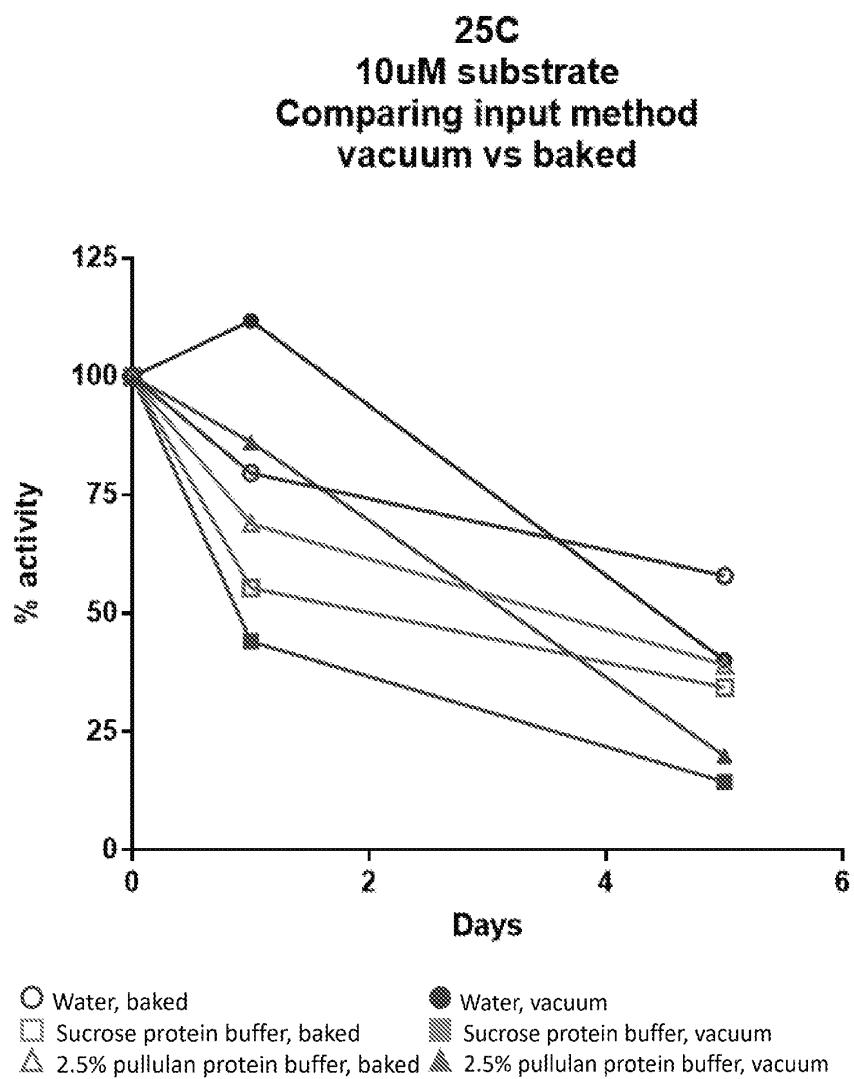


FIG. 22D

60C
10uM substrate
Comparing input method
vacuum vs baked

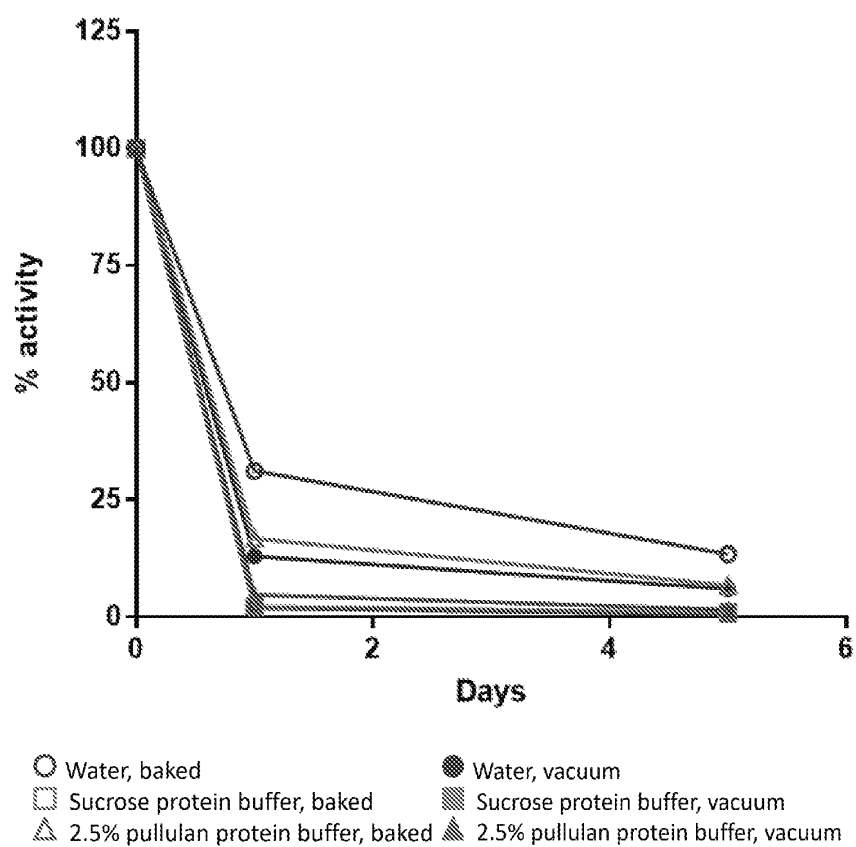
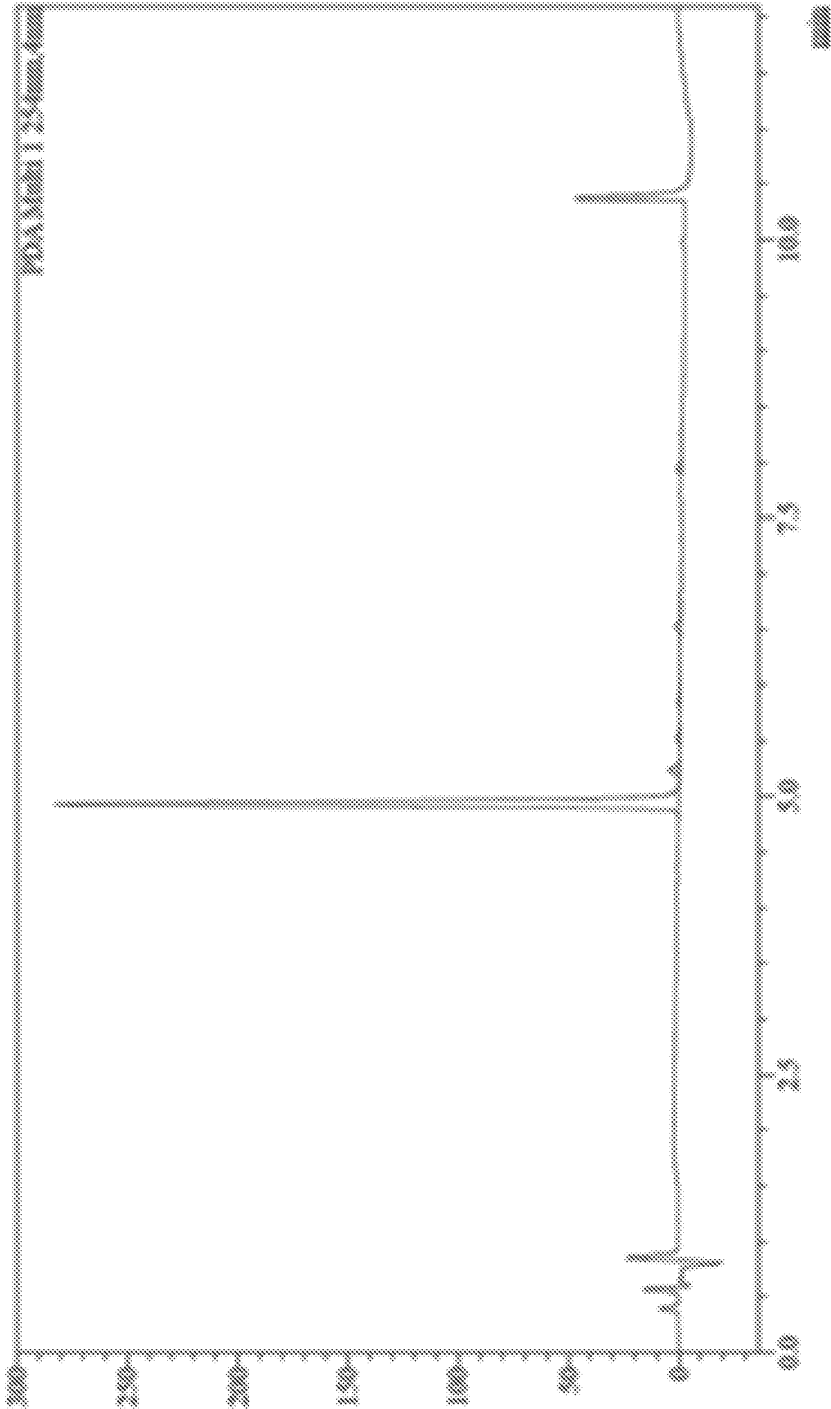


FIG. 23A



PDA Ch1 254nm			
Peak#	Ret. Time	Area%	Area
1	4.929	95.945	931311
2	5.235	1.489	14451
3	5.521	0.387	3755
4	5.842	0.434	4212
5	6.522	1.065	10334
6	7.938	0.681	6610
Total		100.000	970673

FIG. 23B

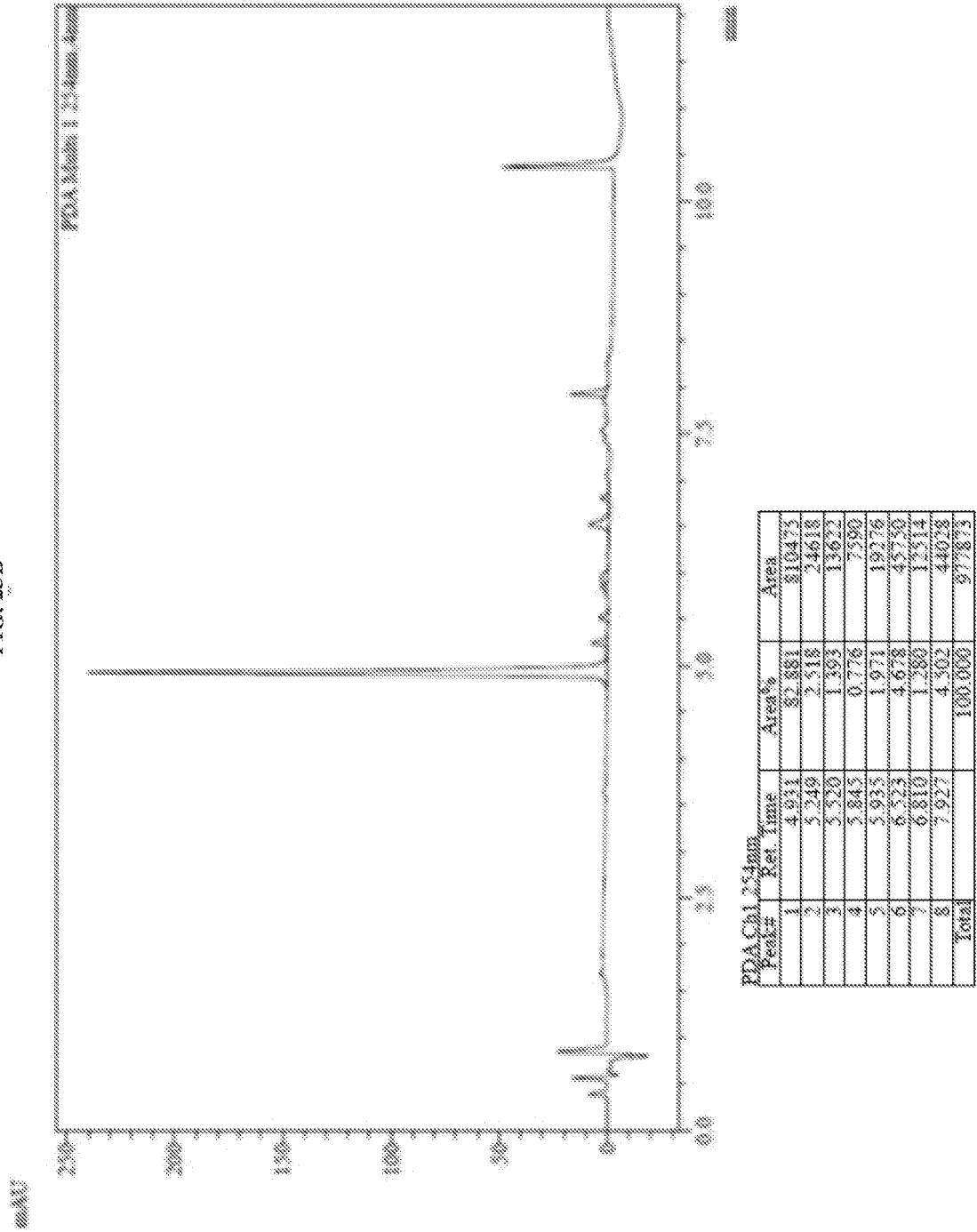


FIG. 24A

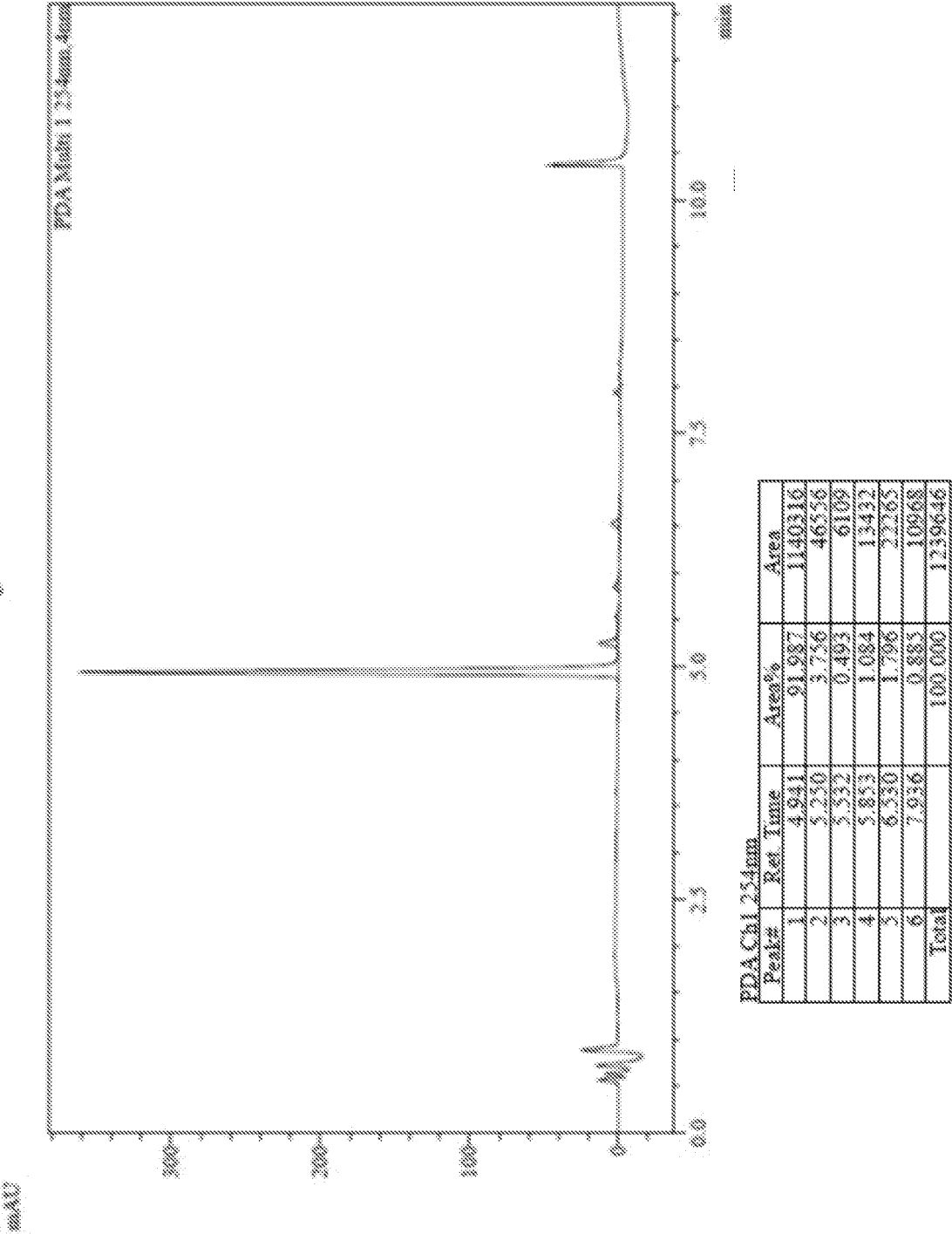


FIG. 24B

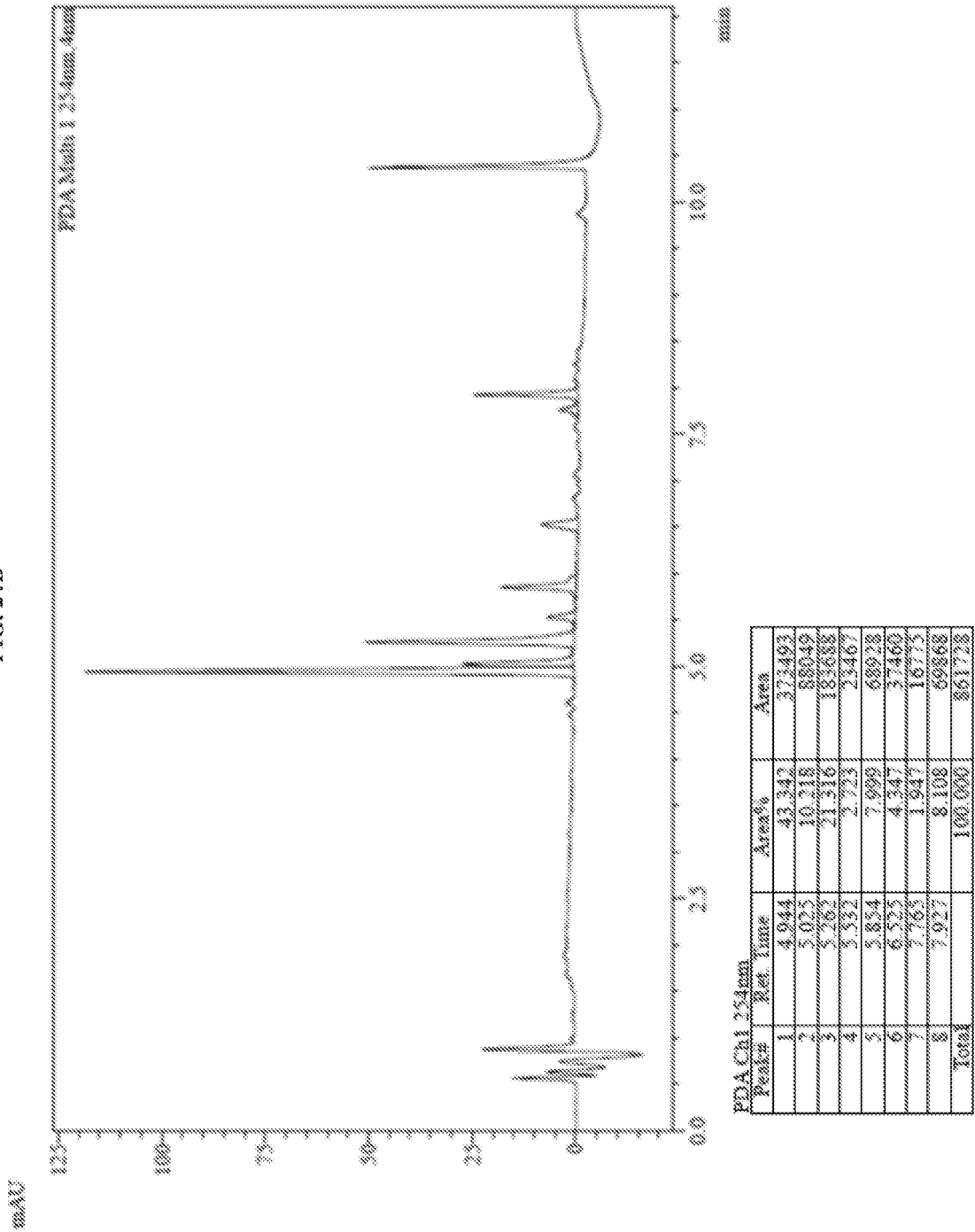


FIG. 25A

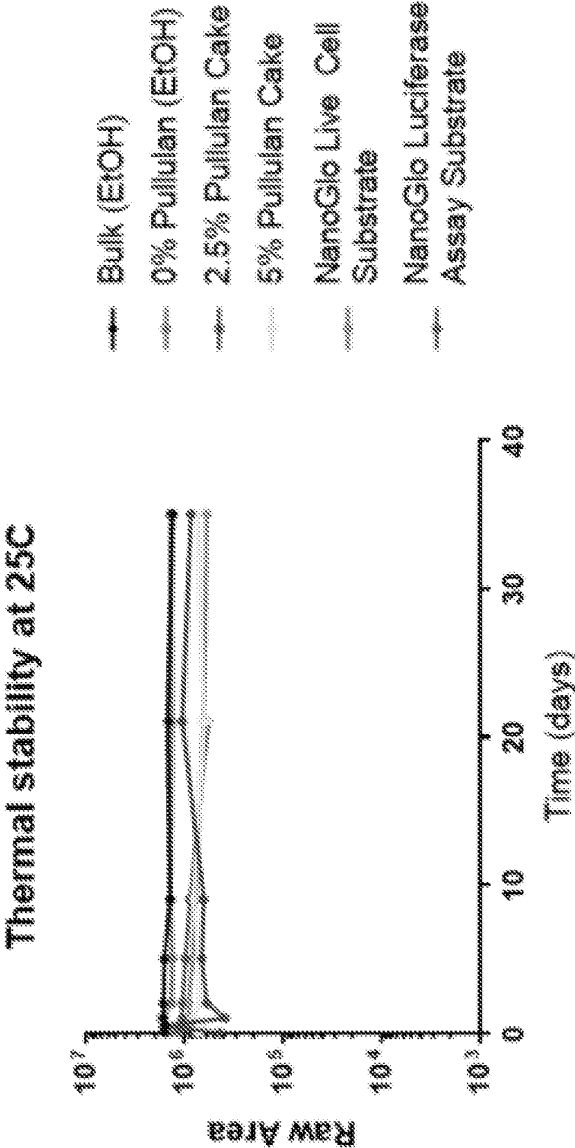


FIG. 25B

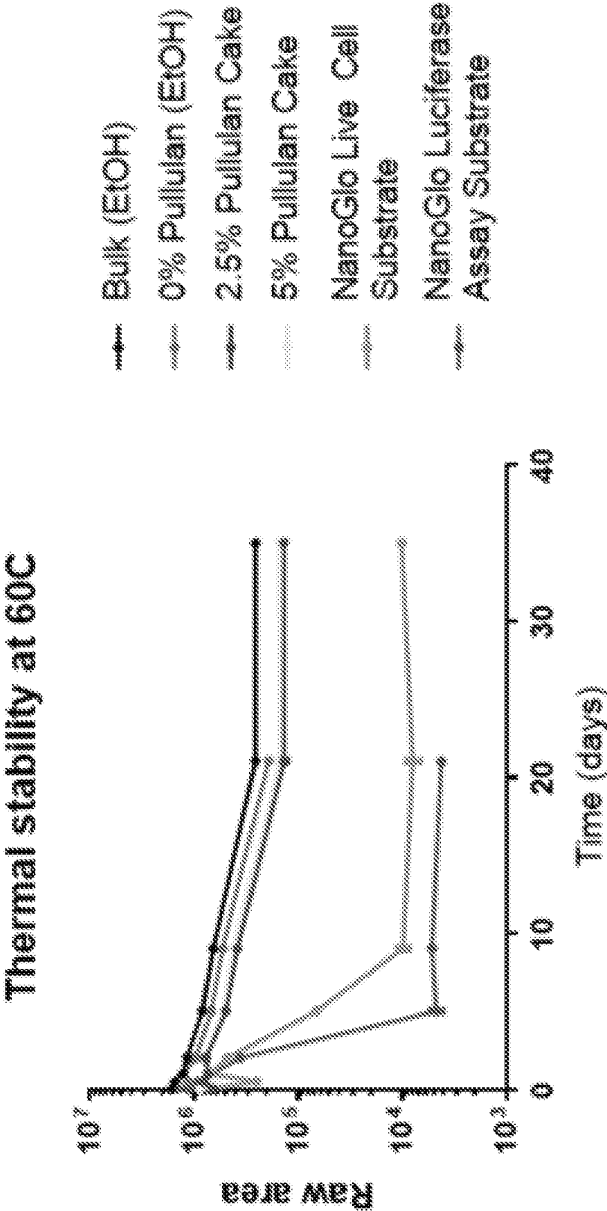


FIG. 25C

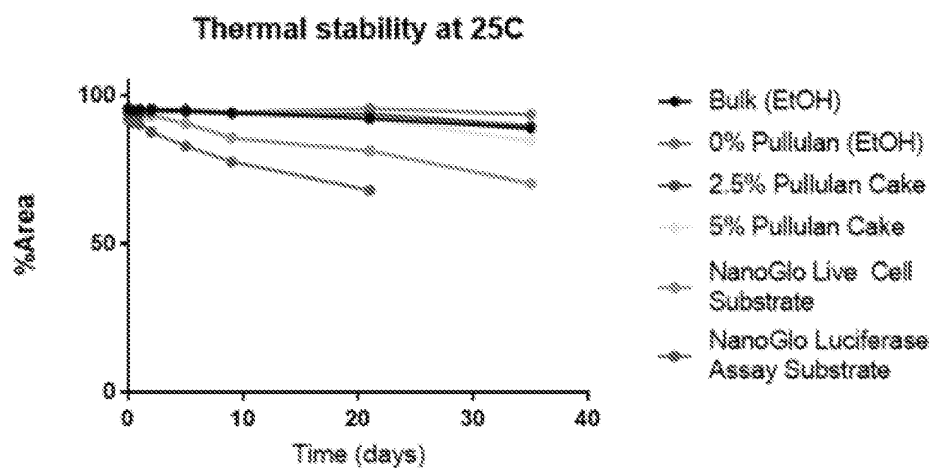


FIG. 25D

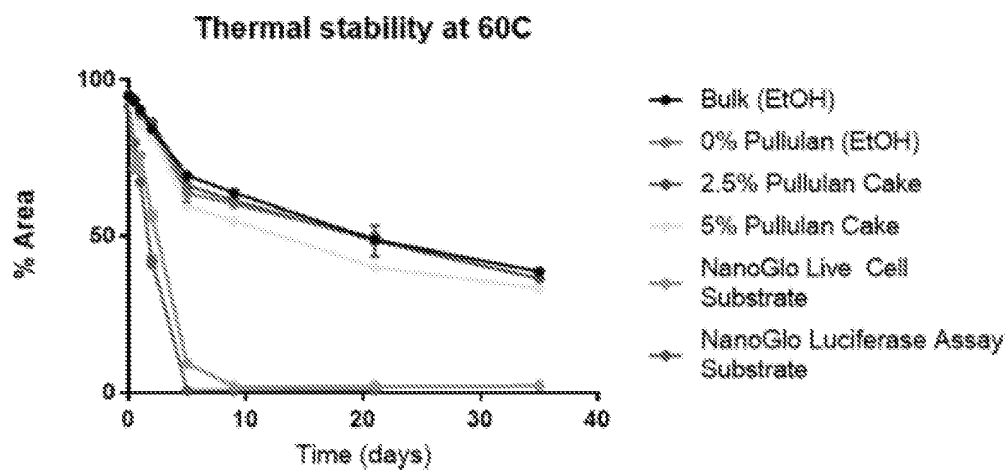


FIG. 26A

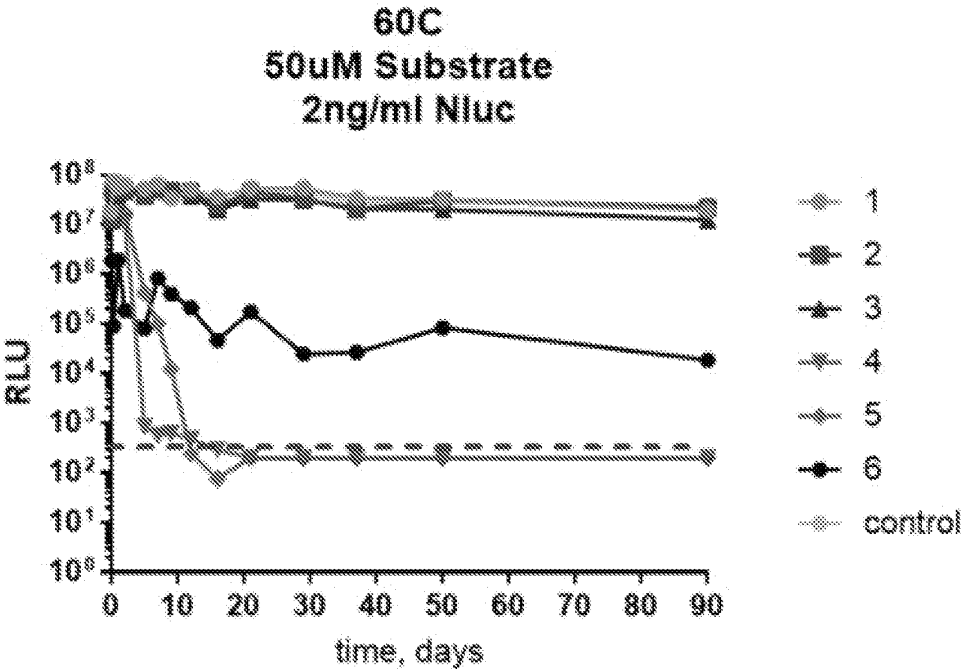


FIG. 26B

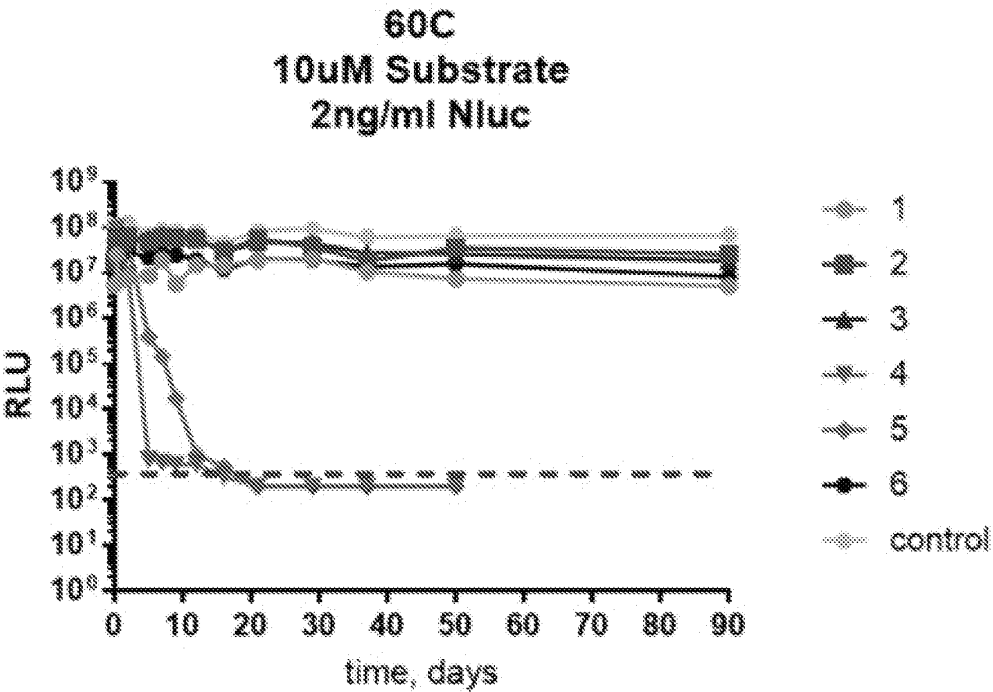


FIG. 26C

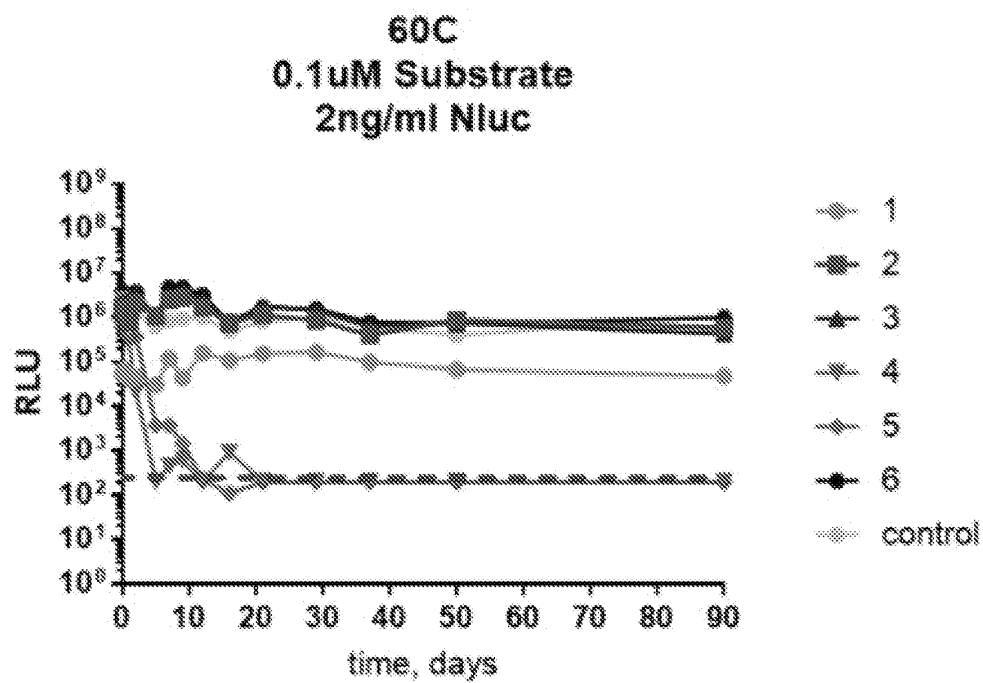


FIG. 26D

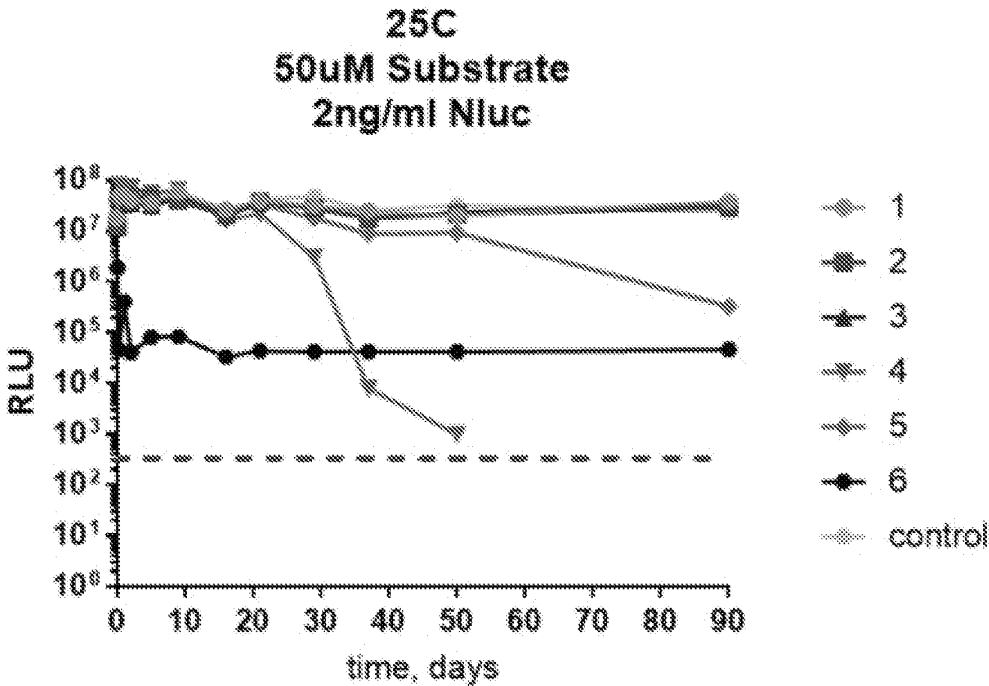


FIG. 26E

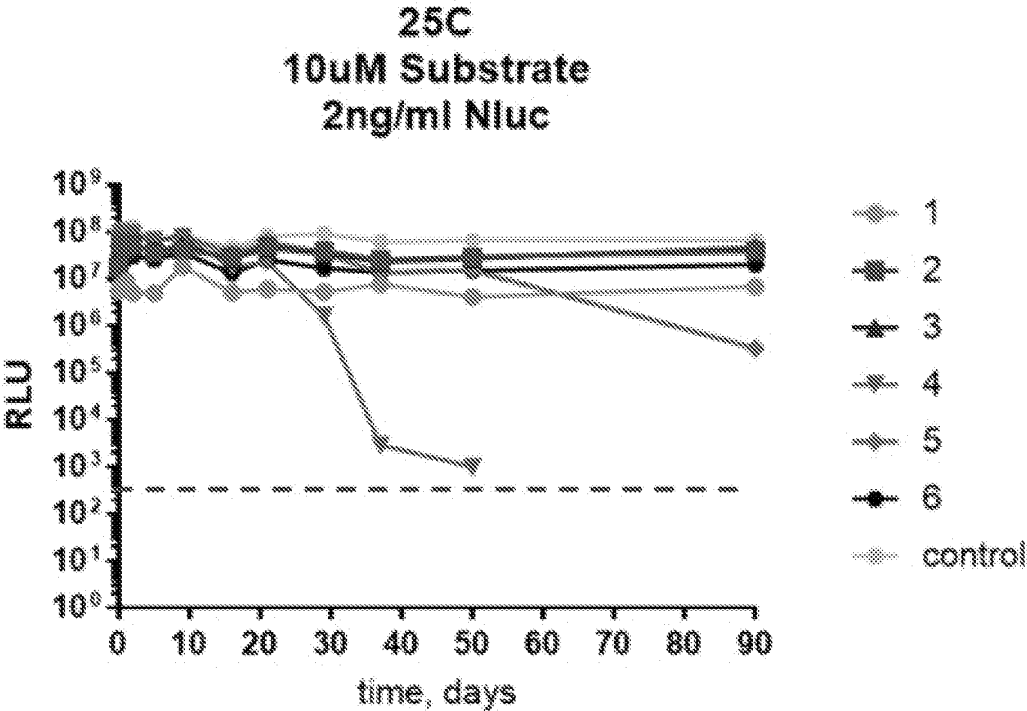


FIG. 26F

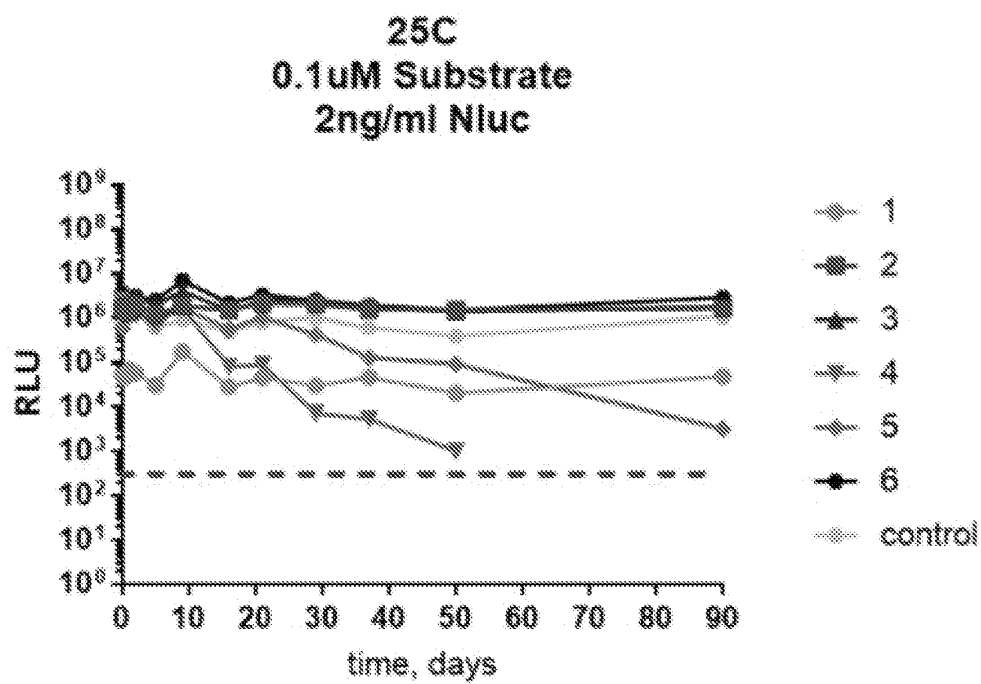


FIG. 27A

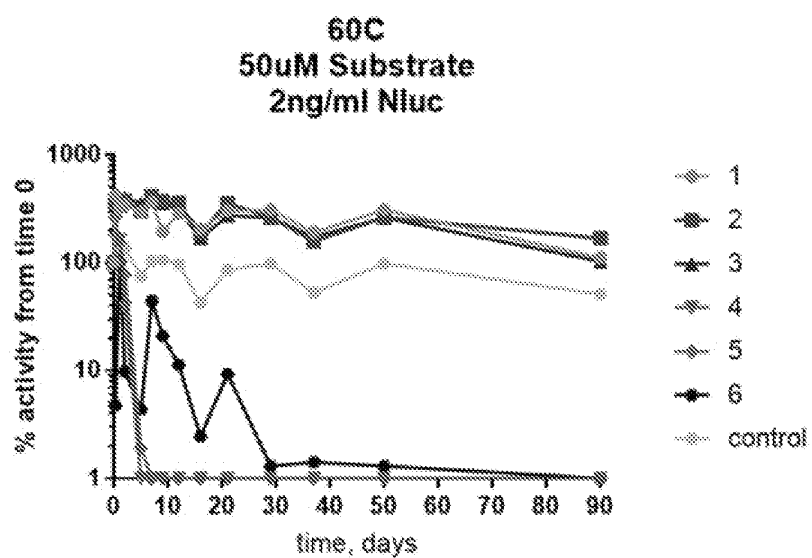


FIG. 27B

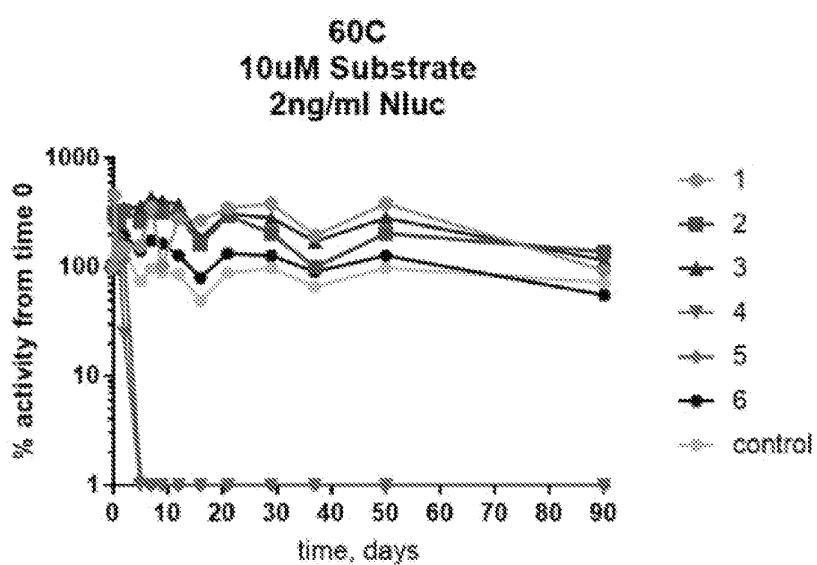


FIG. 27C

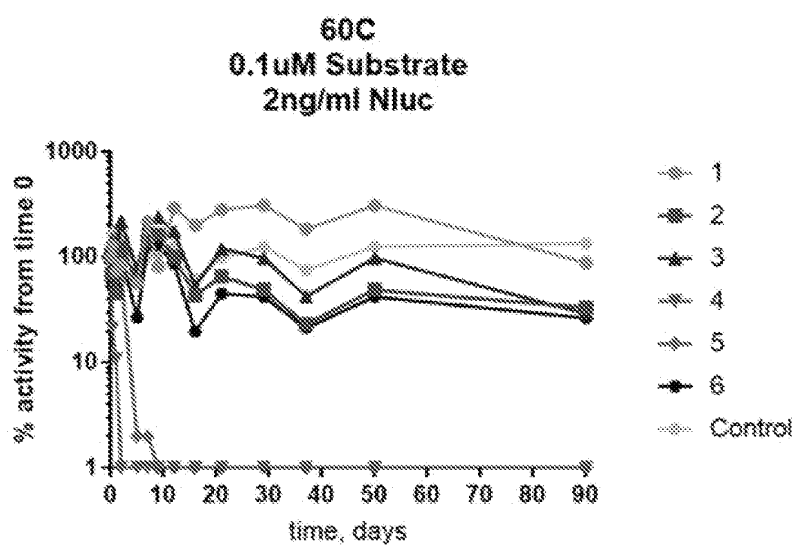


FIG. 27D

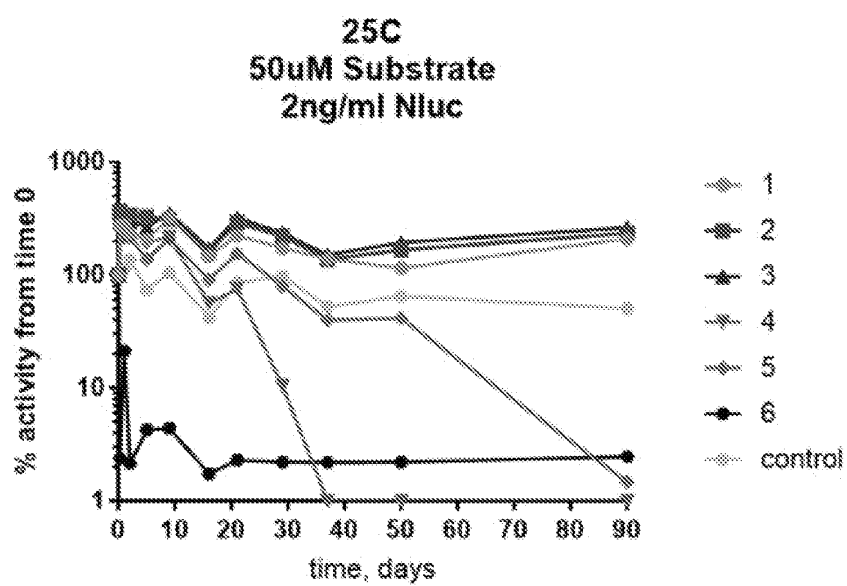


FIG. 27E

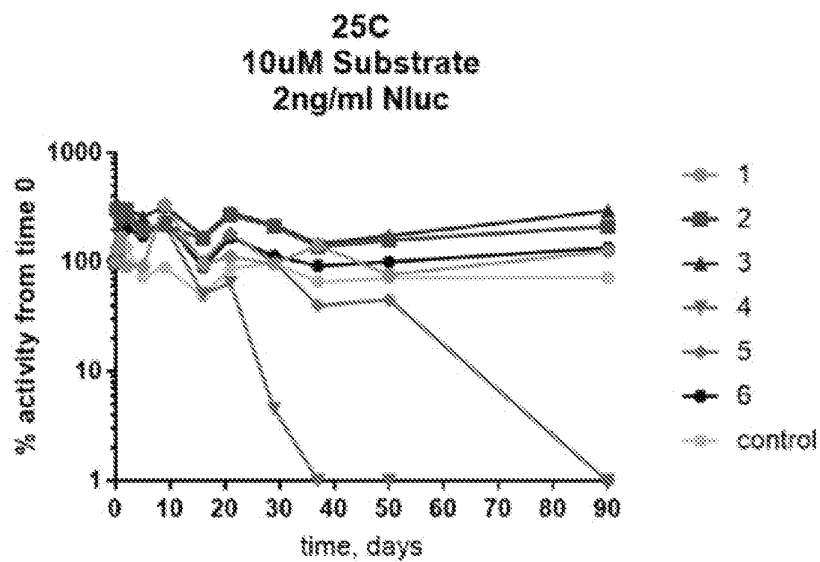


FIG. 27F

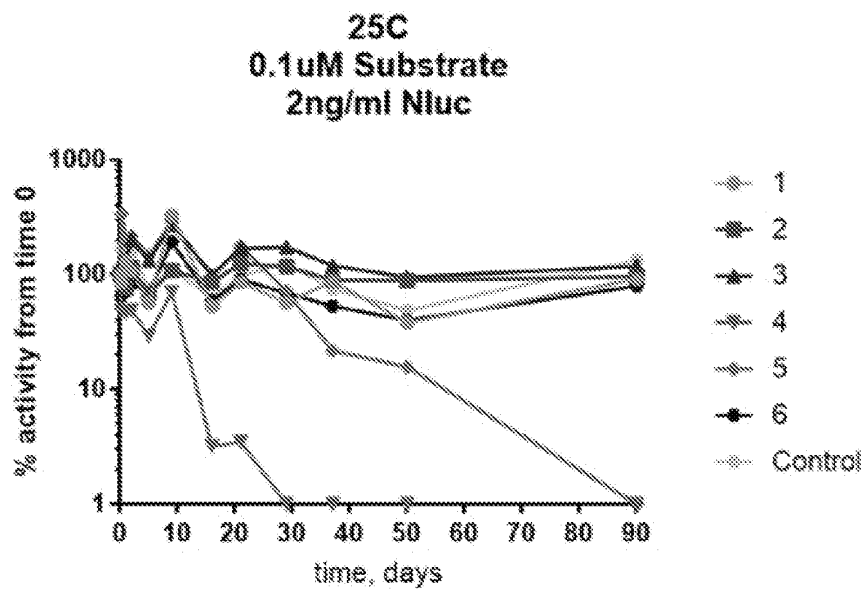


FIG. 28A

Formulated Furimazine Film-Coated Microtiter Plates
2ng/ml Nluc in PBS
no pre-equilibration

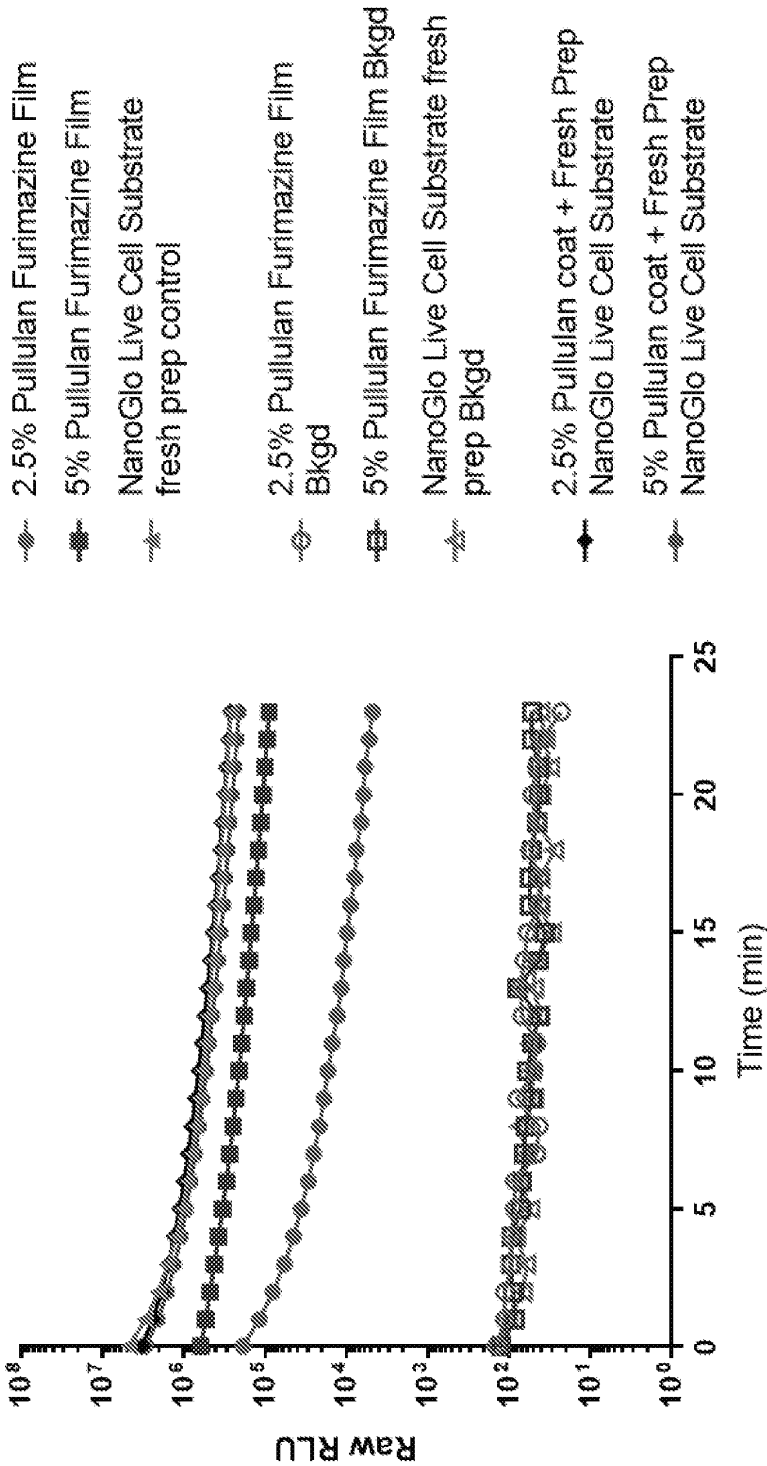
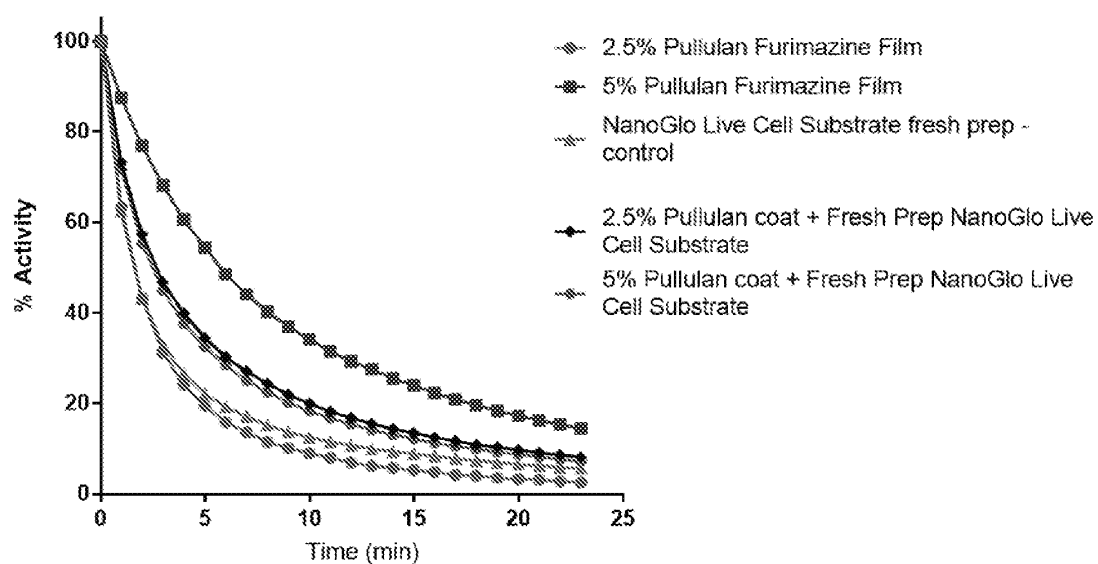


FIG. 28B

Formulated Furimazine Film-Coated Microtiter Plates
2ng/ml Nluc in PBS
no pre-equilibration



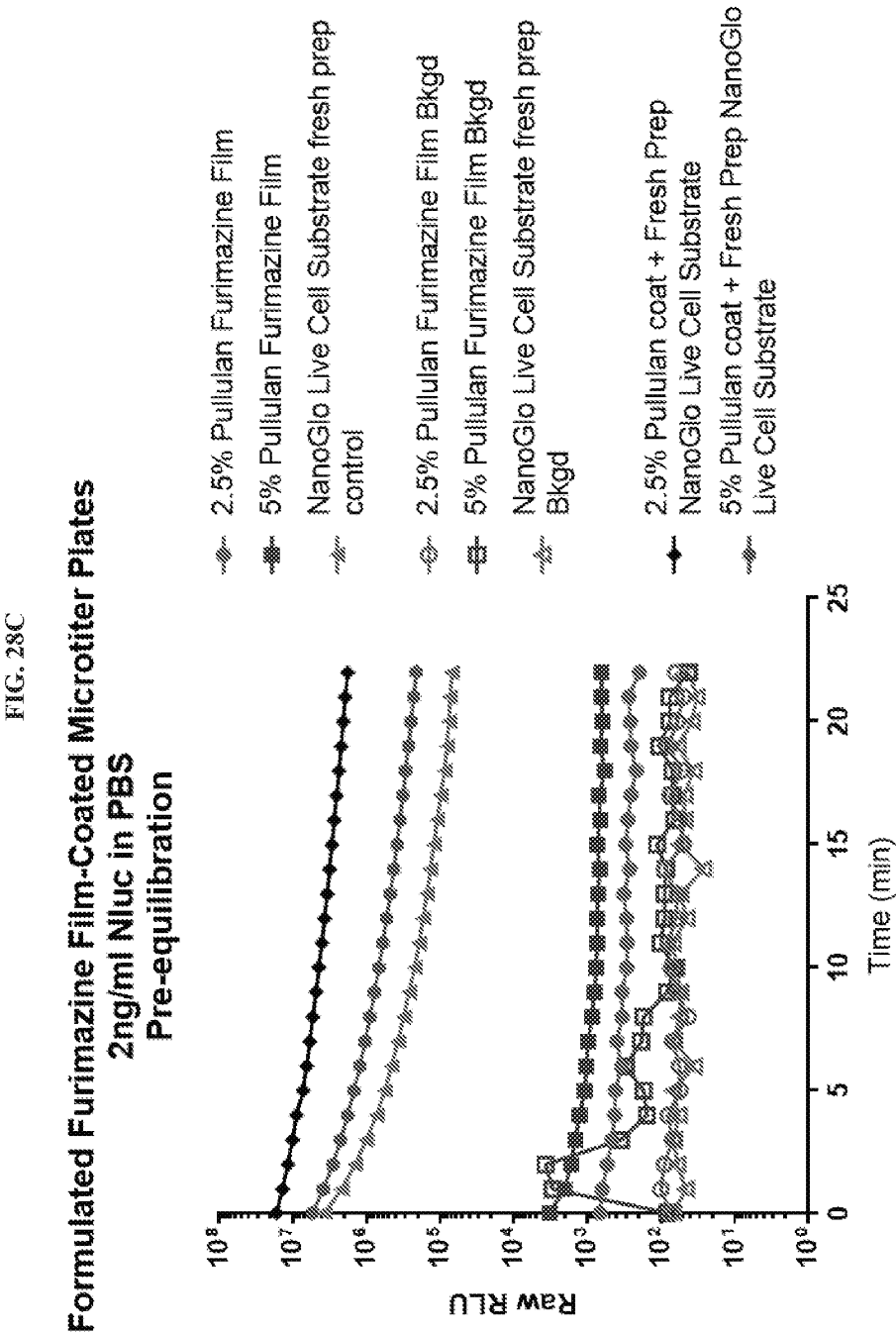


FIG. 29

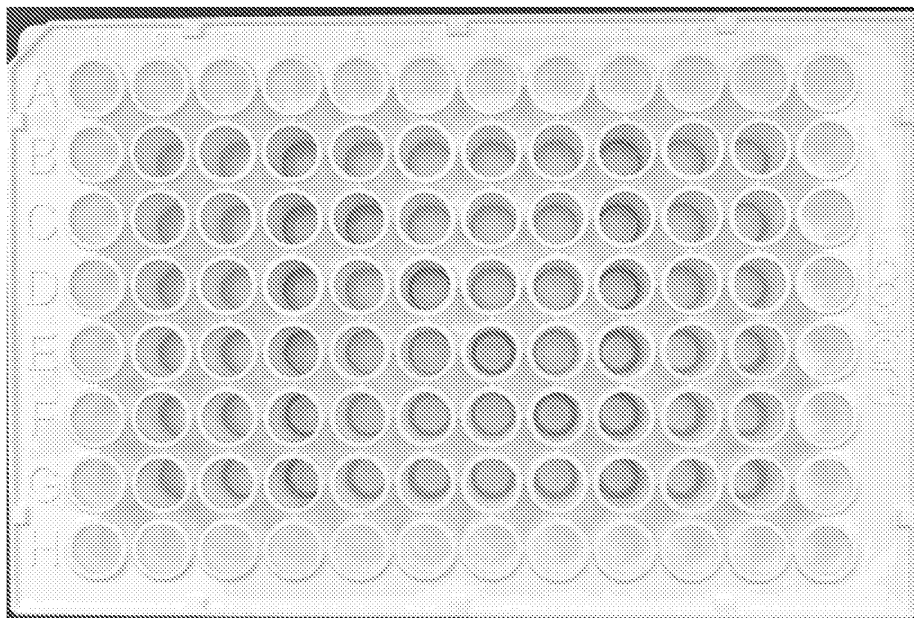


FIG. 30A

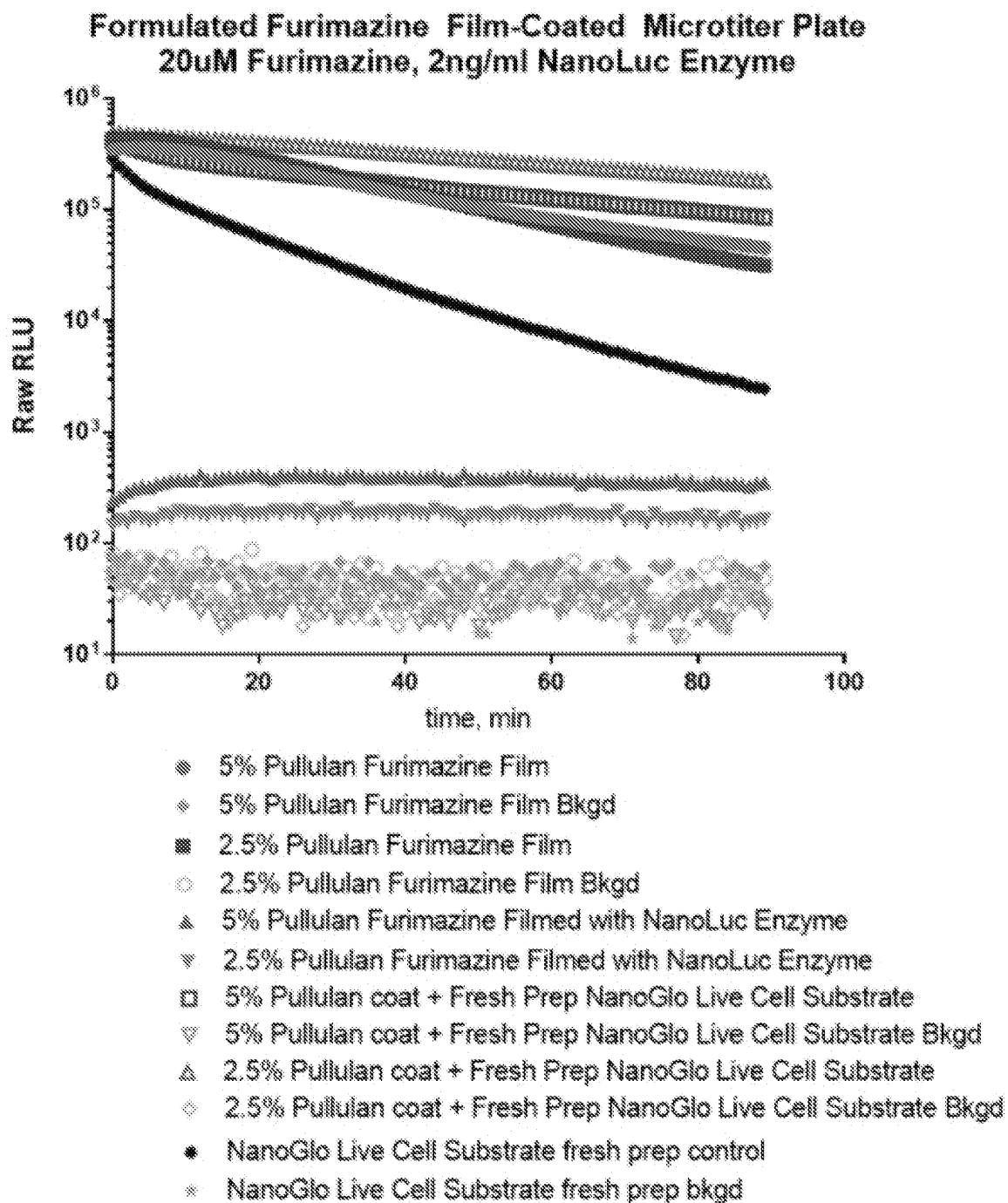
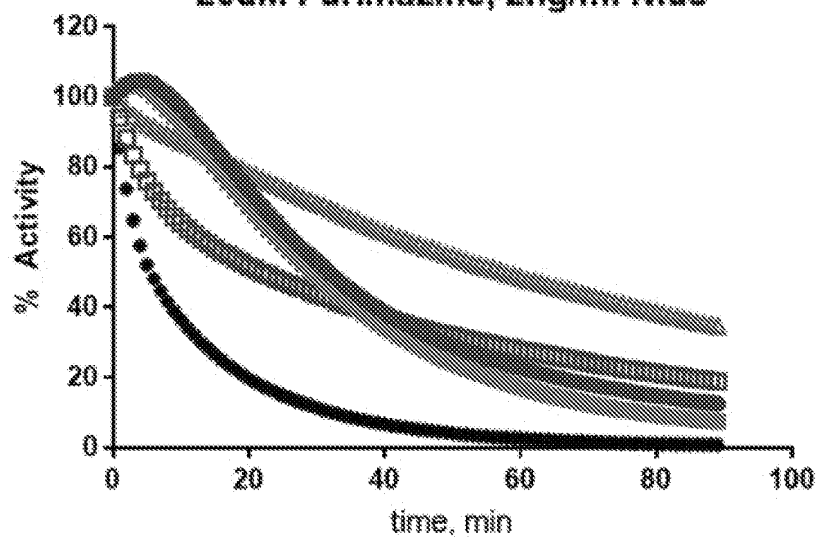


FIG. 30B

Formulated Furimazine Film-coated Microtiter Plate
20uM Furimazine, 2ng/ml Nluc



- 5% Pullulan Furimazine Film
- ▨ 2.5% Pullulan Furimazine Film
- 5% Pullulan coat + Fresh Prep NanoGlo Live Cell Substrate Bkgd
- △ 2.5% Pullulan coat + Fresh Prep NanoGlo Live Cell Substrate
- NanoGlo Live Cell Substrate fresh prep control

FIG. 30C

Furimazine Filmed Microtiter Plates
Stability Study at 25°C
20uM Furimazine Final
PBS, pH 7.0 Assay Buffer

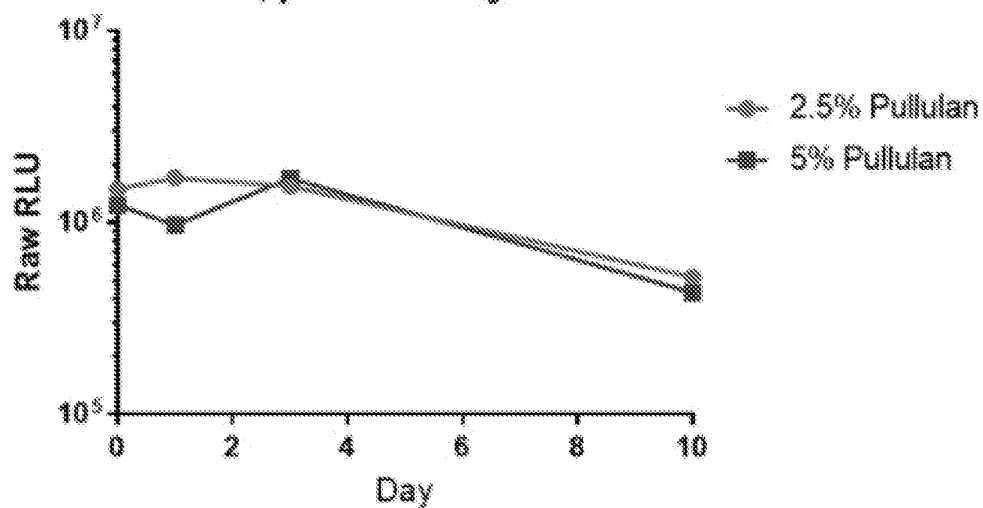


FIG. 31A

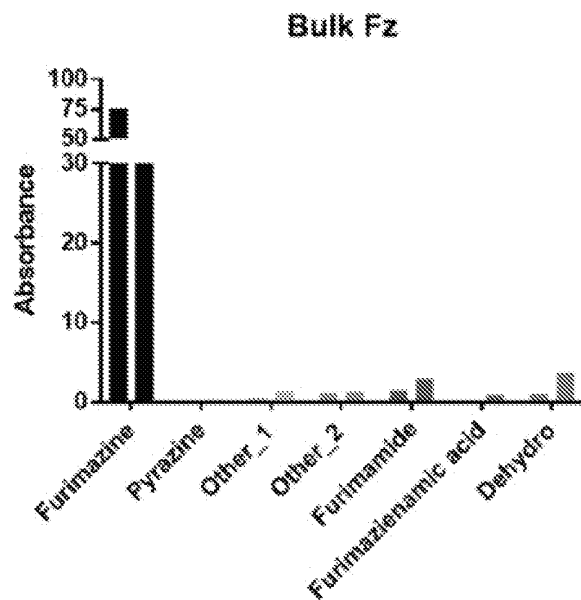


FIG. 31B

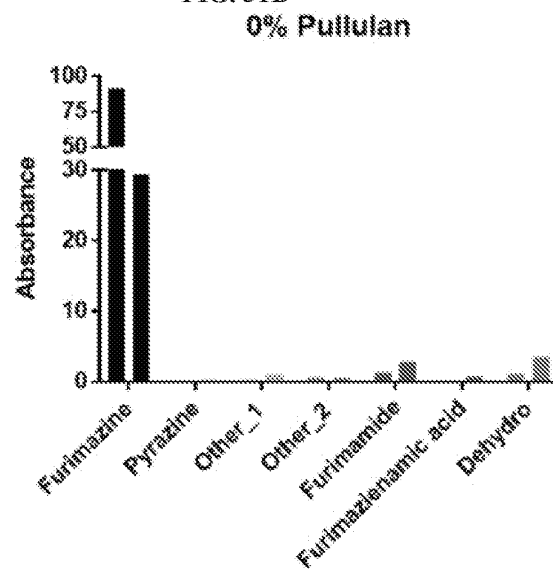


FIG. 31C

2.5% Pullulan

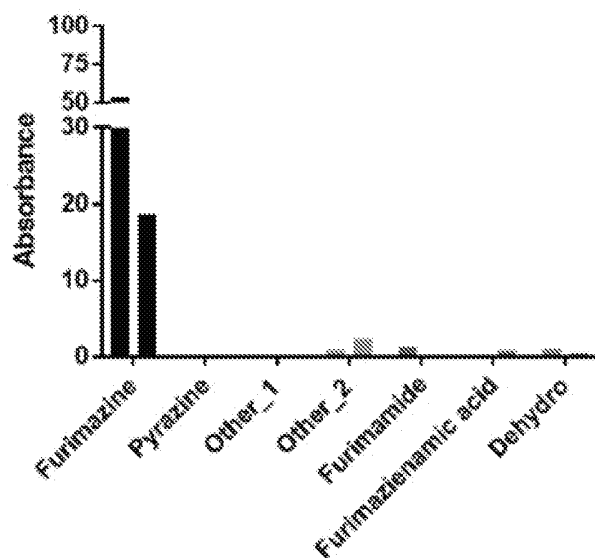


FIG. 31D

5% Pullulan

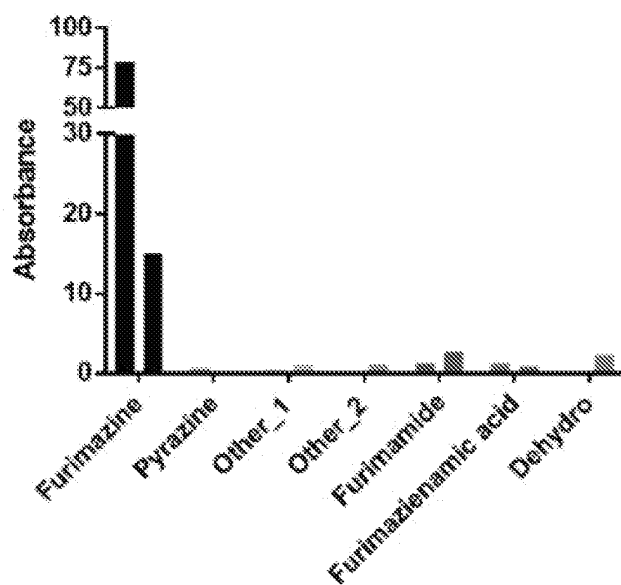


FIG. 31E

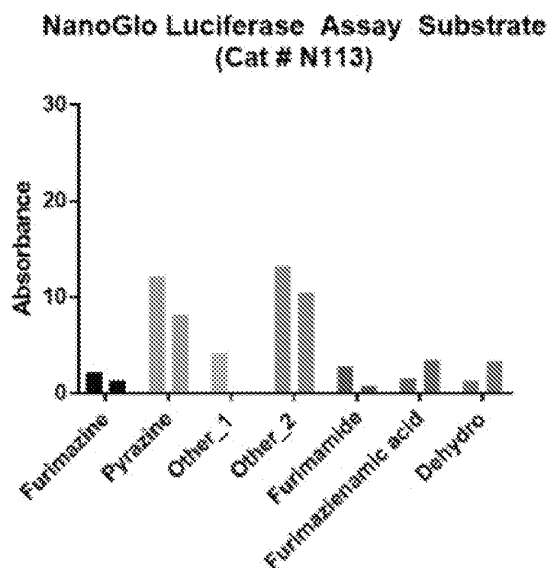


FIG. 31F

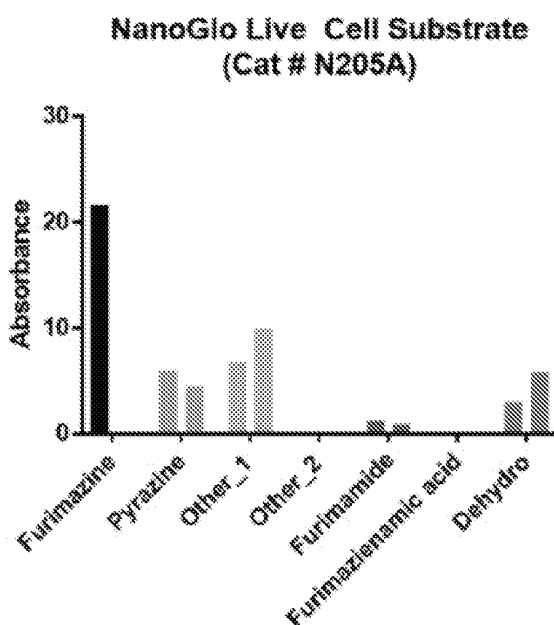
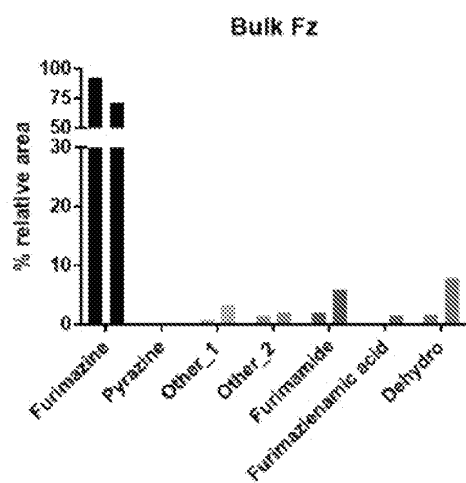
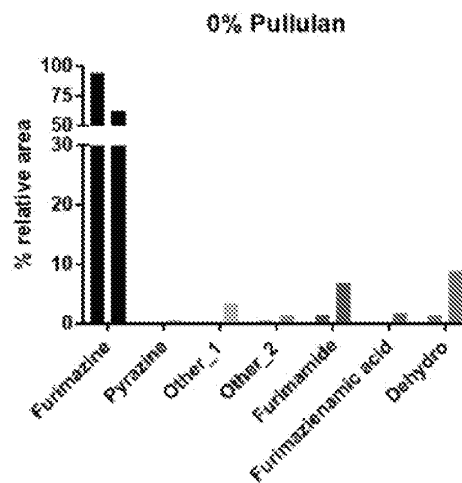


FIG. 32

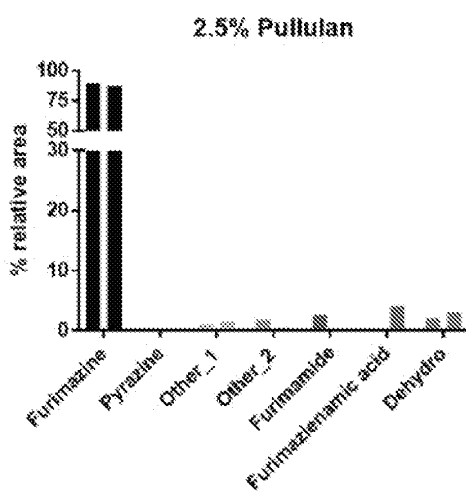
A.



B.



C.



D.

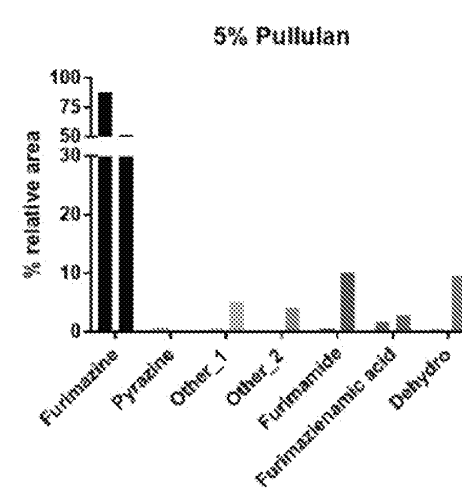
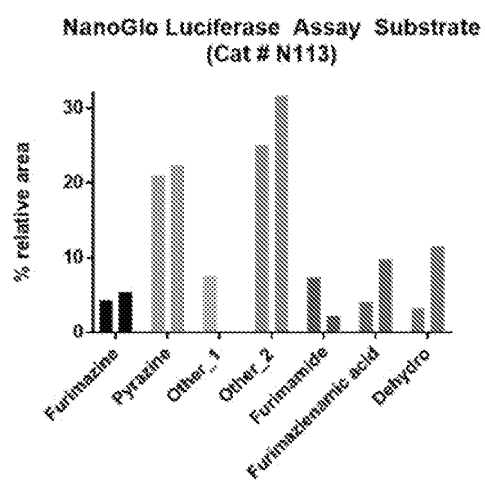
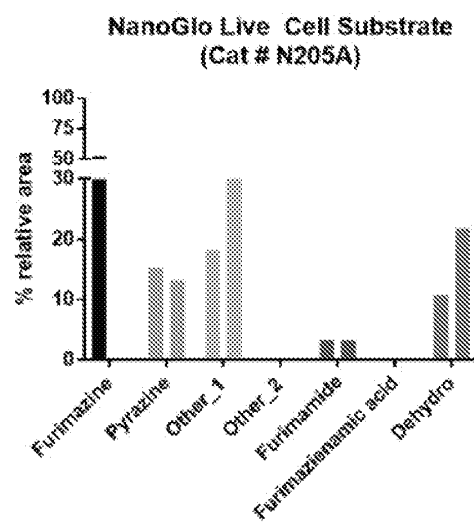


FIG. 32 (cont'd)

E.



F.



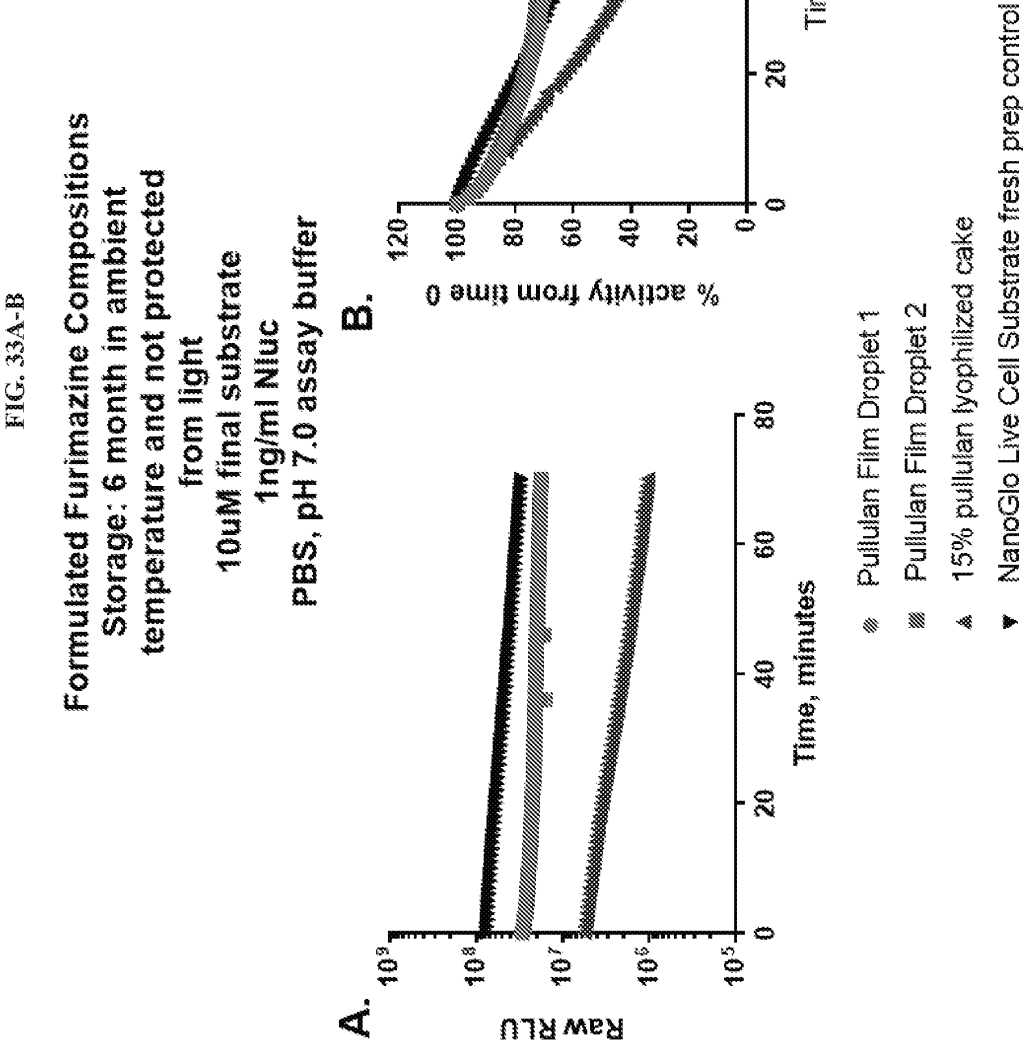


FIG. 34

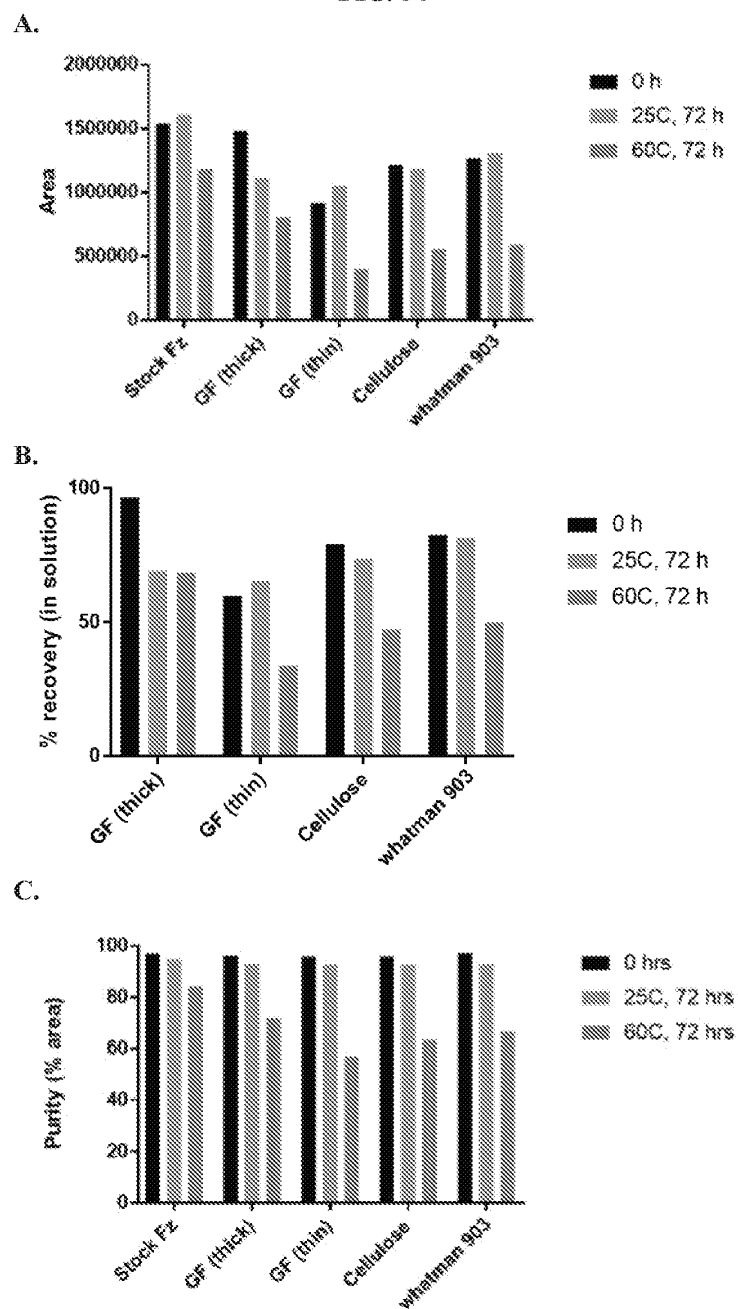
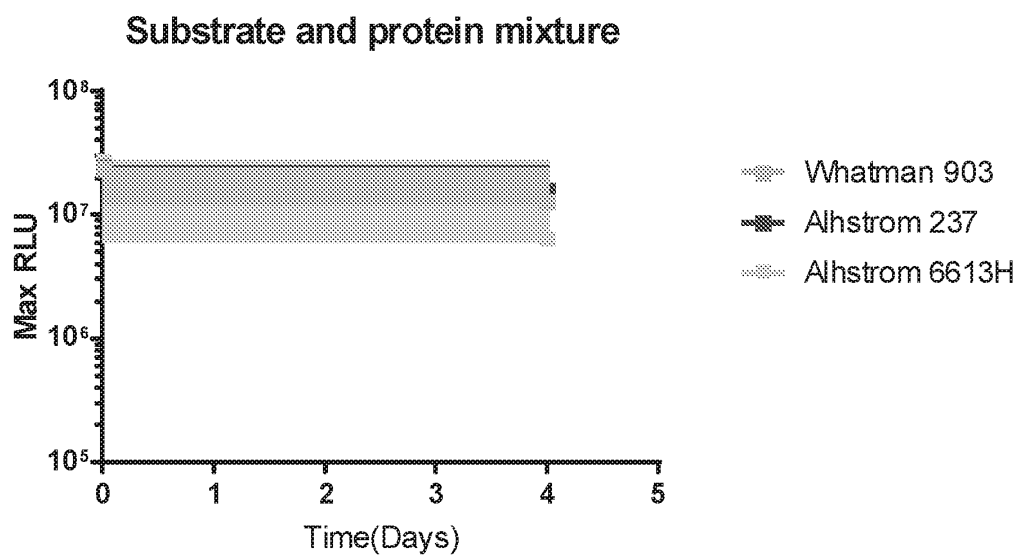


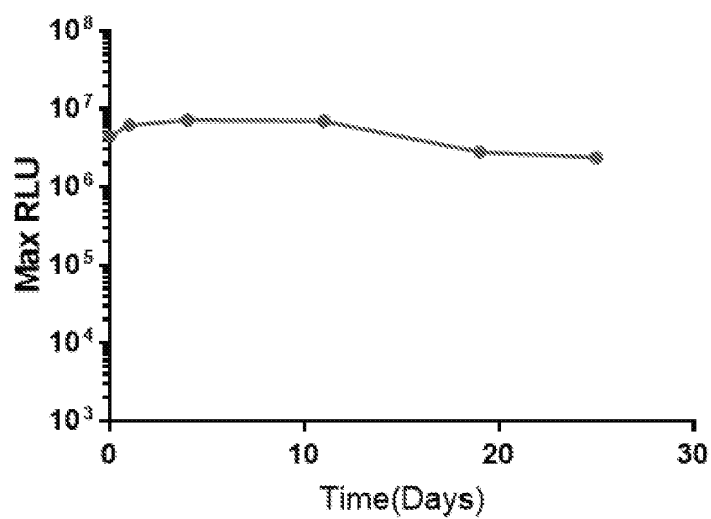
FIG. 35

A.



B.

Substrate and reporter protein on Whatman 903 surface



SUBSTITUTE SHEET (RULE 26)

FIG. 36

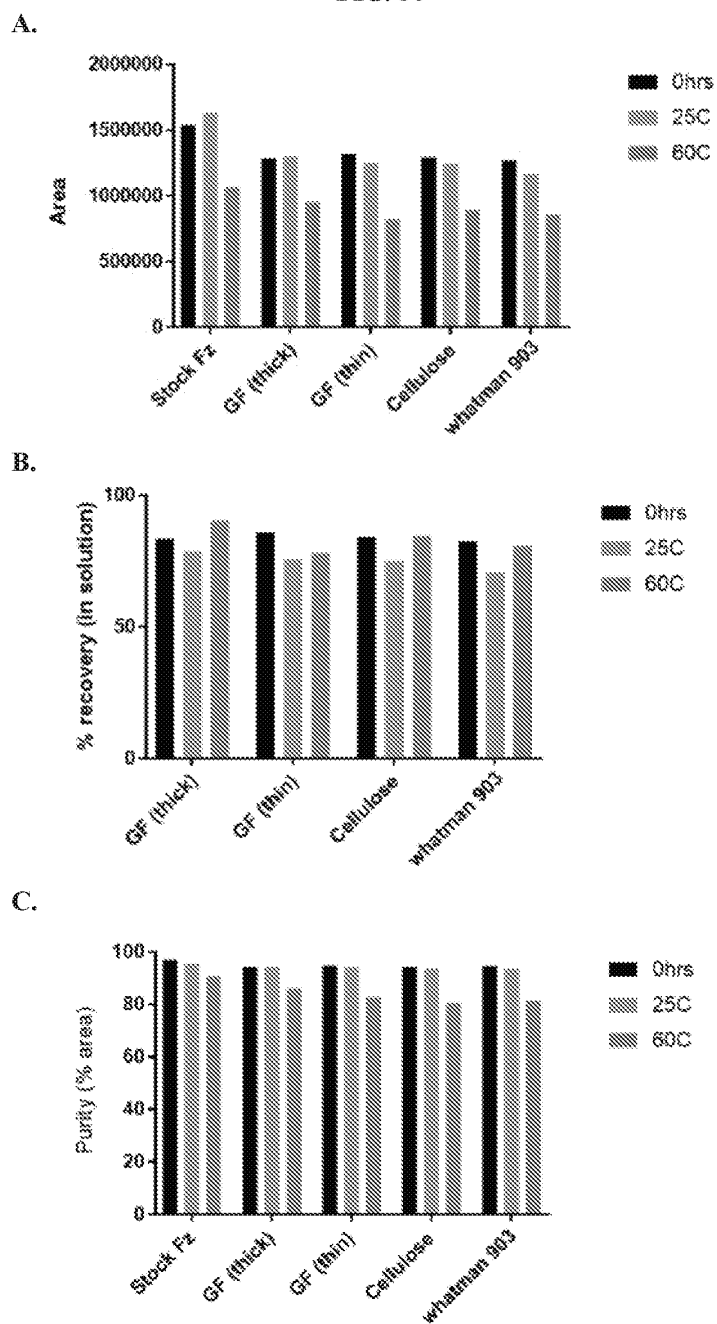
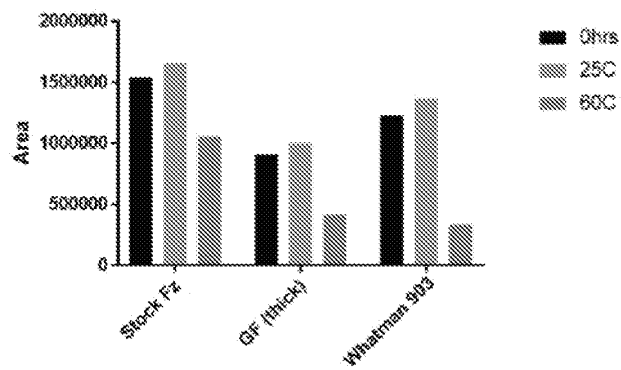
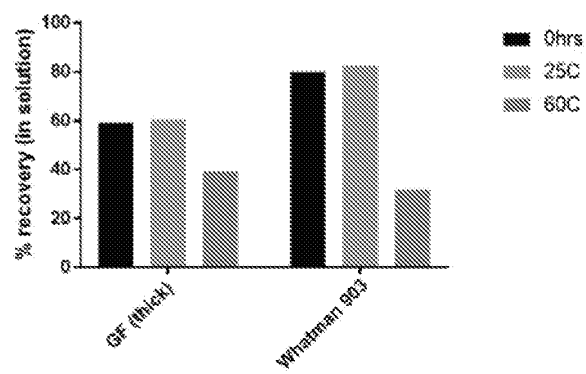


FIG. 37

A.



B.



C.

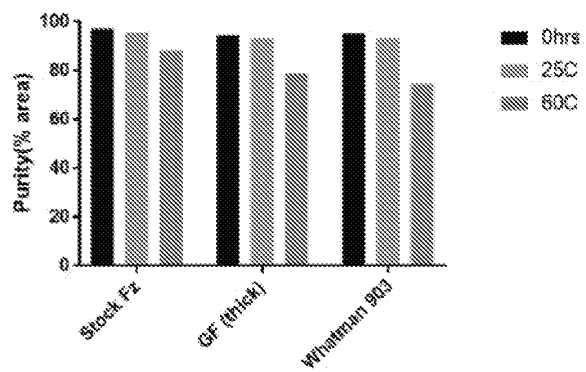


FIG. 38

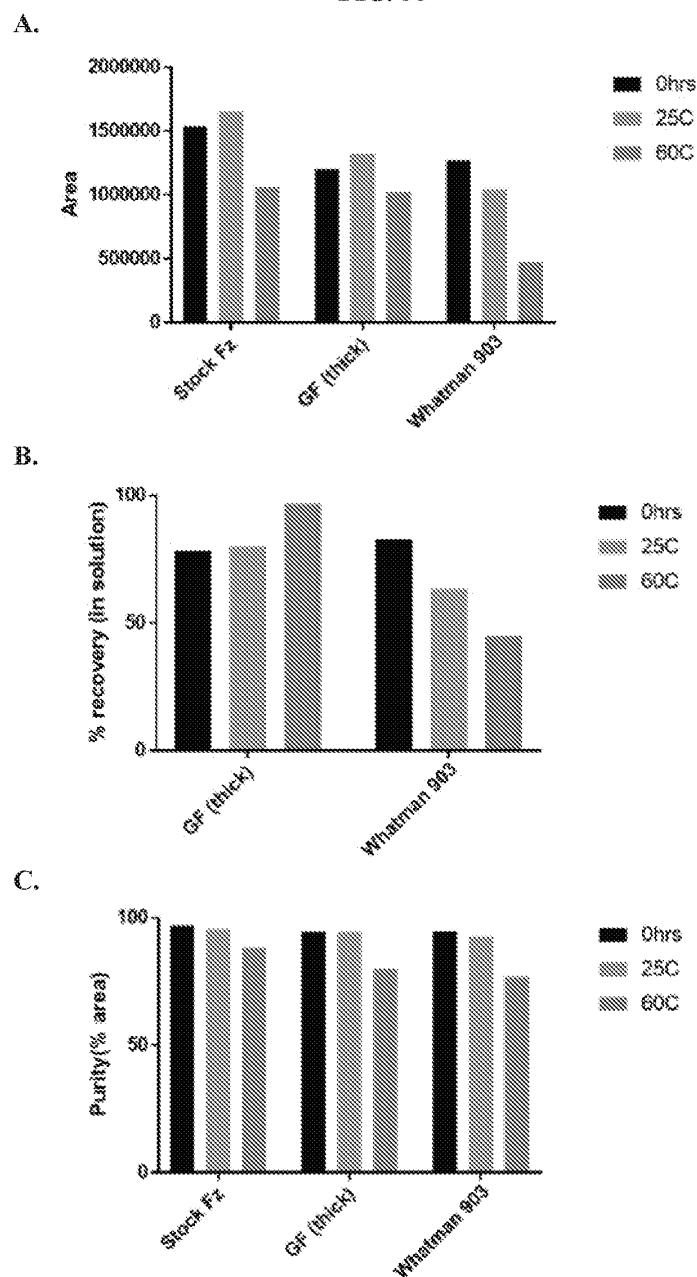


FIG. 39A

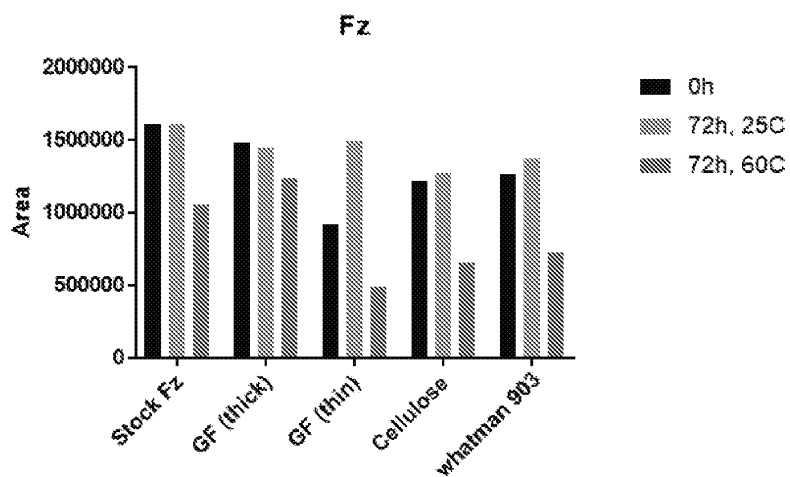


FIG. 39B

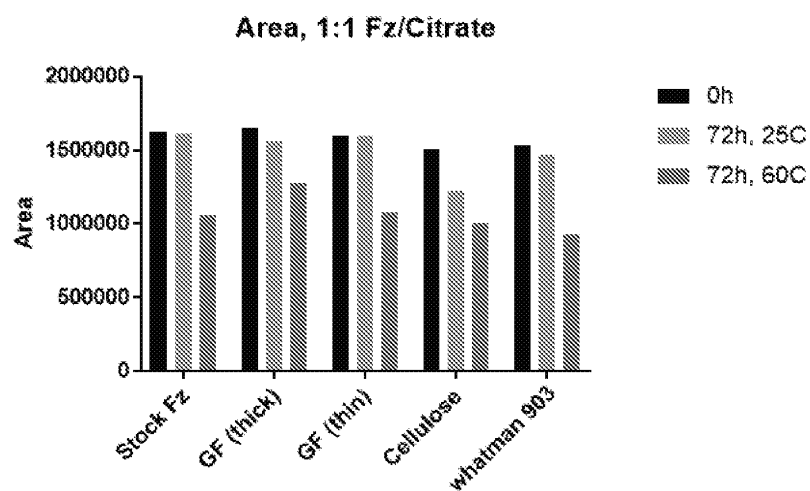


FIG. 39C

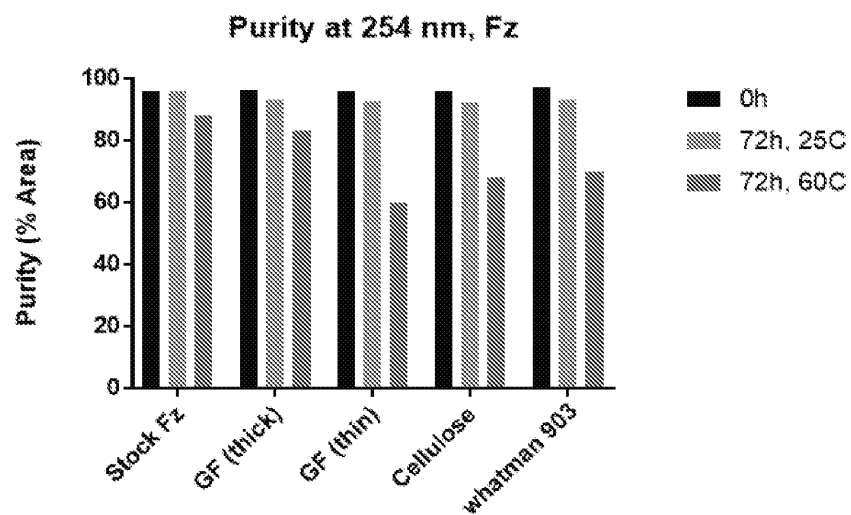


FIG. 39D

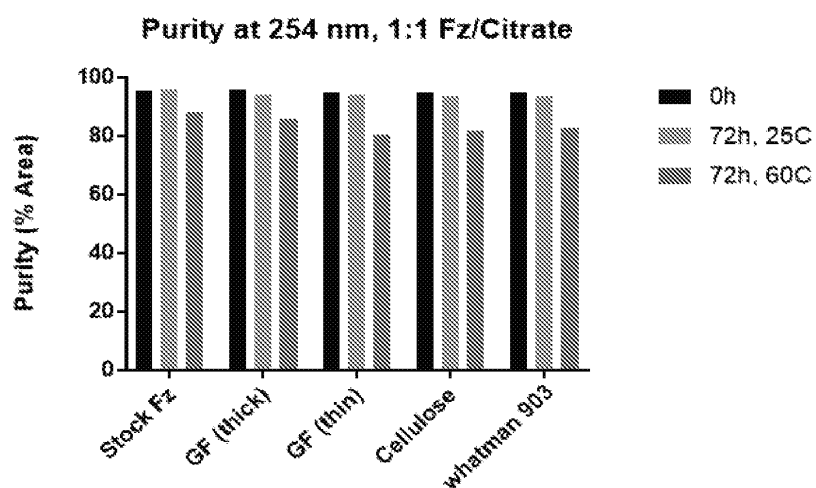


FIG. 40A

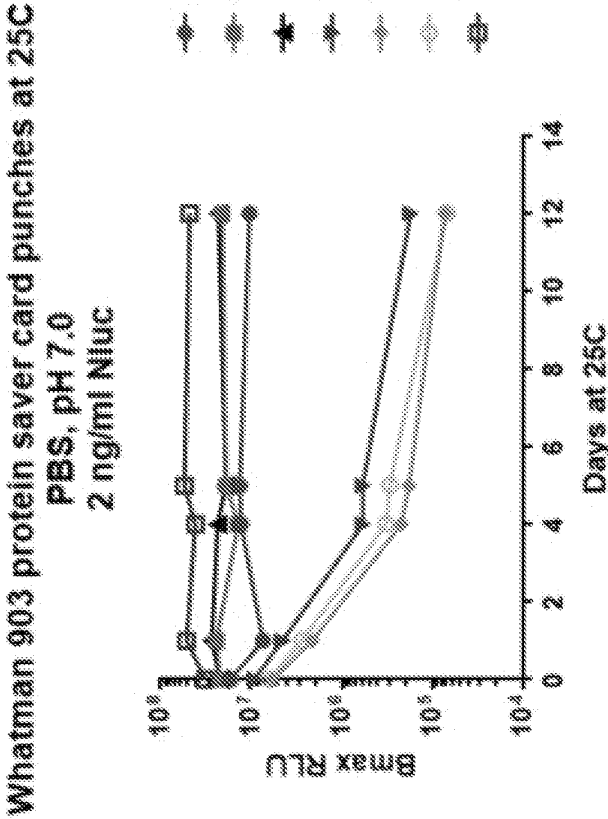


FIG. 40B

Whatman 903 protein saver card punches at 25C

PBS, pH 7.0

2 ng/ml NIuc

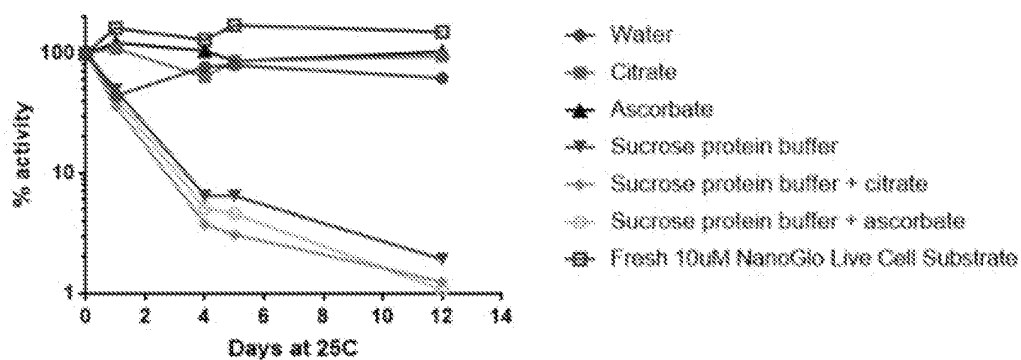


FIG. 40C

Day 12

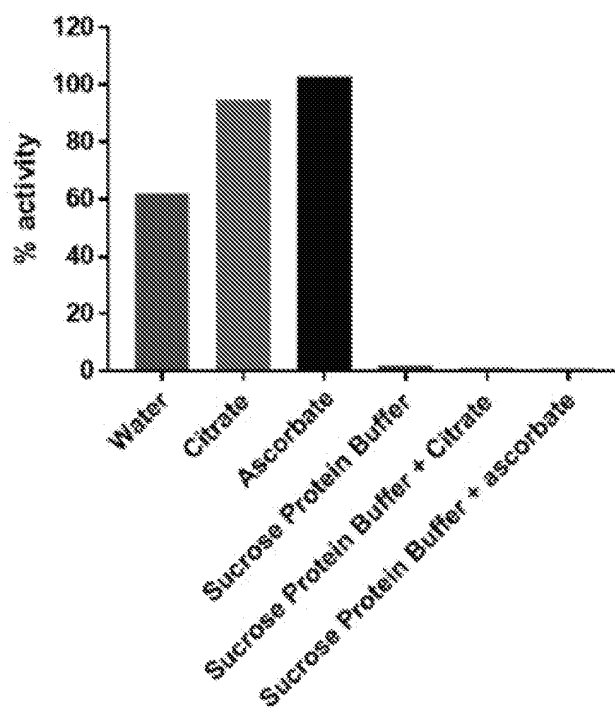
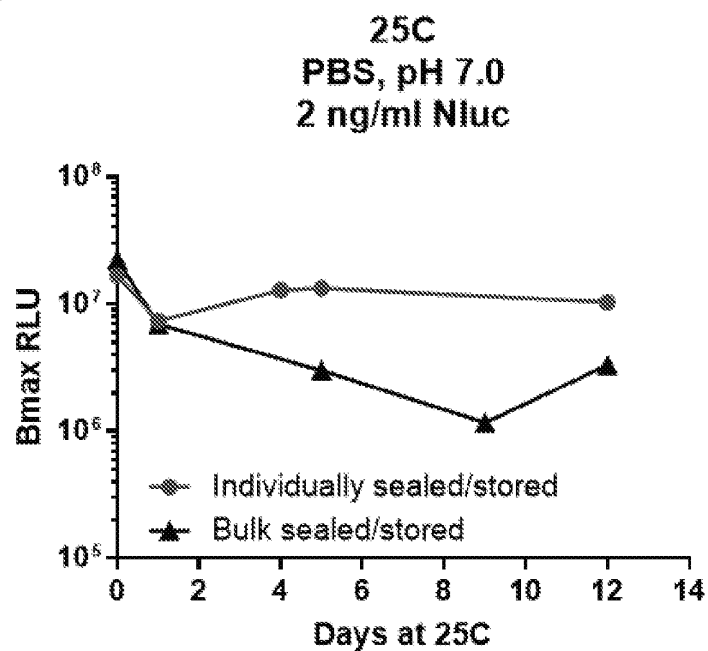
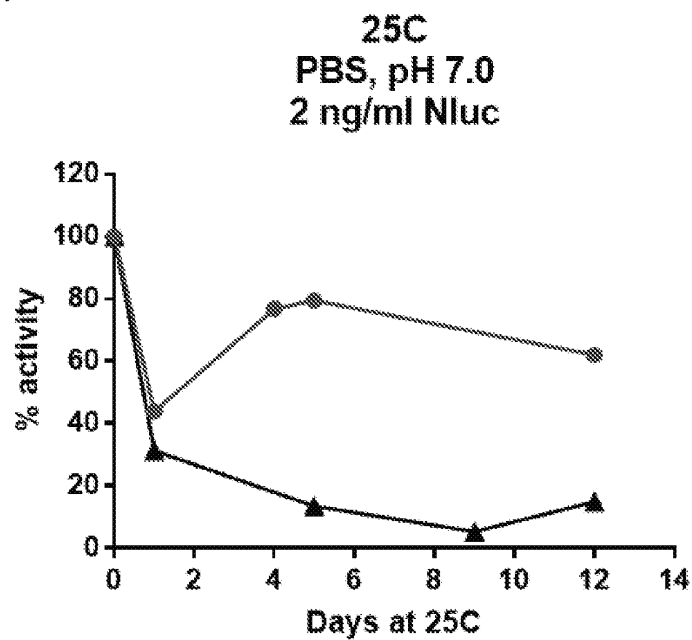


FIG. 41

A.



B.



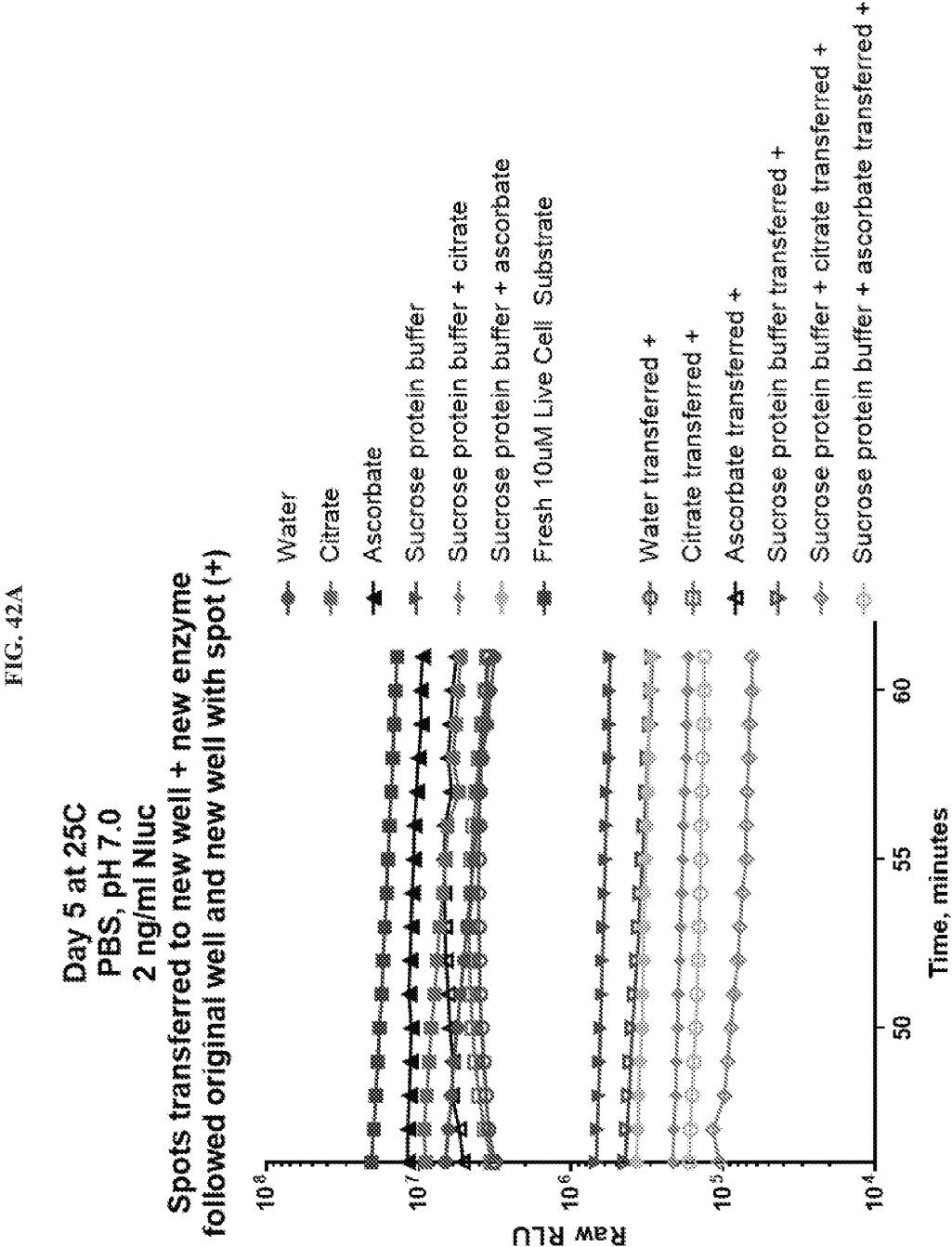


FIG. 42B

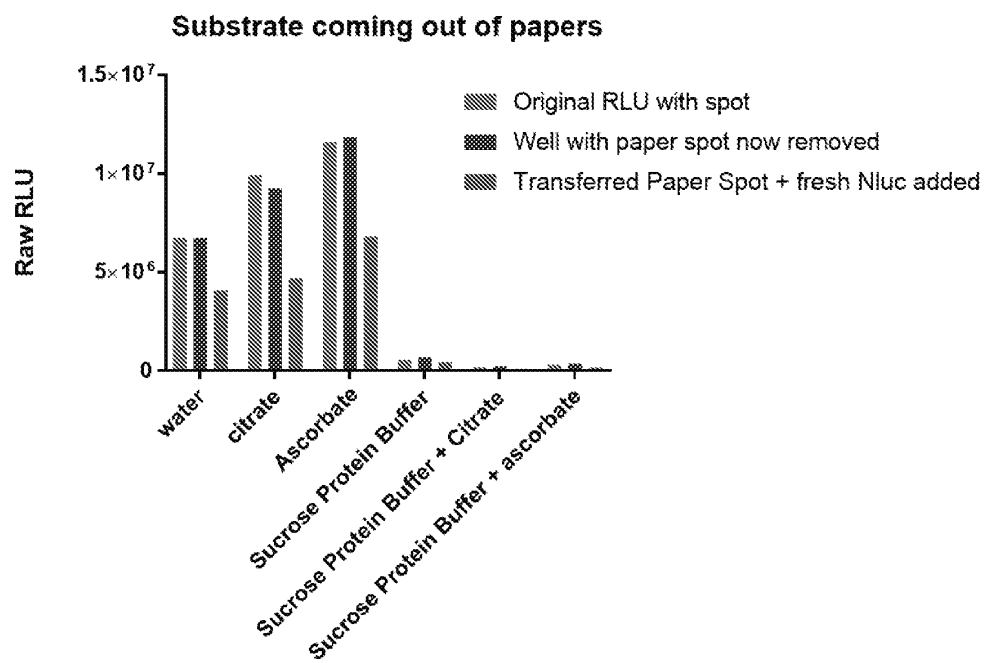


FIG. 42C

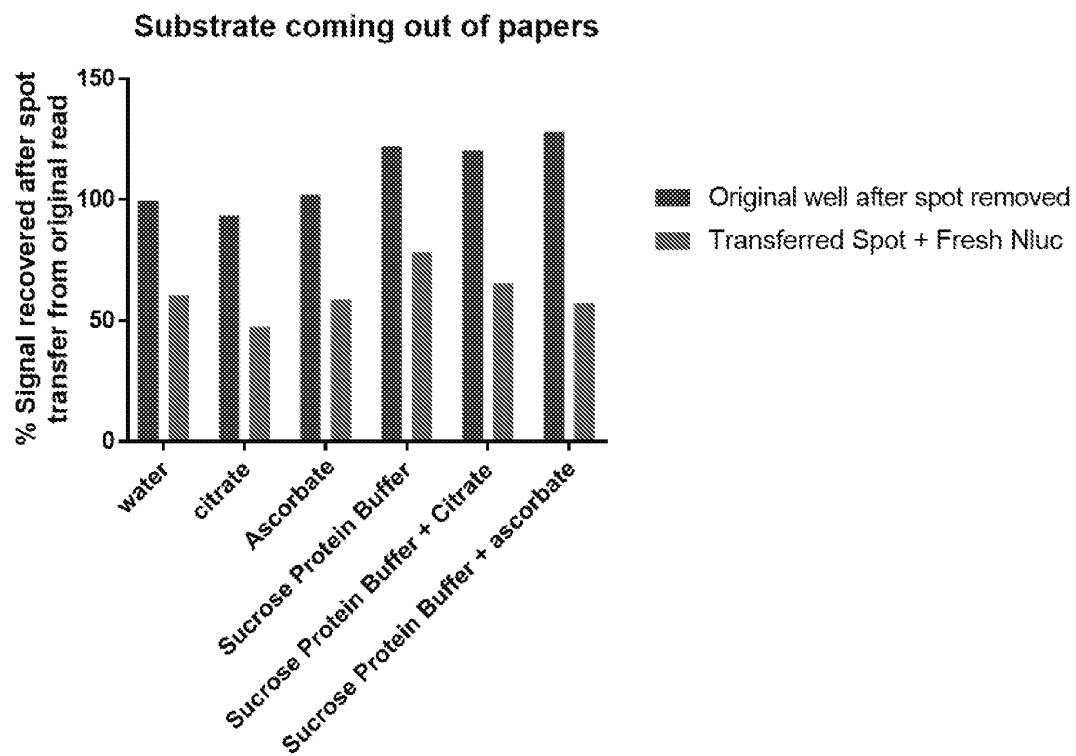


FIG. 43

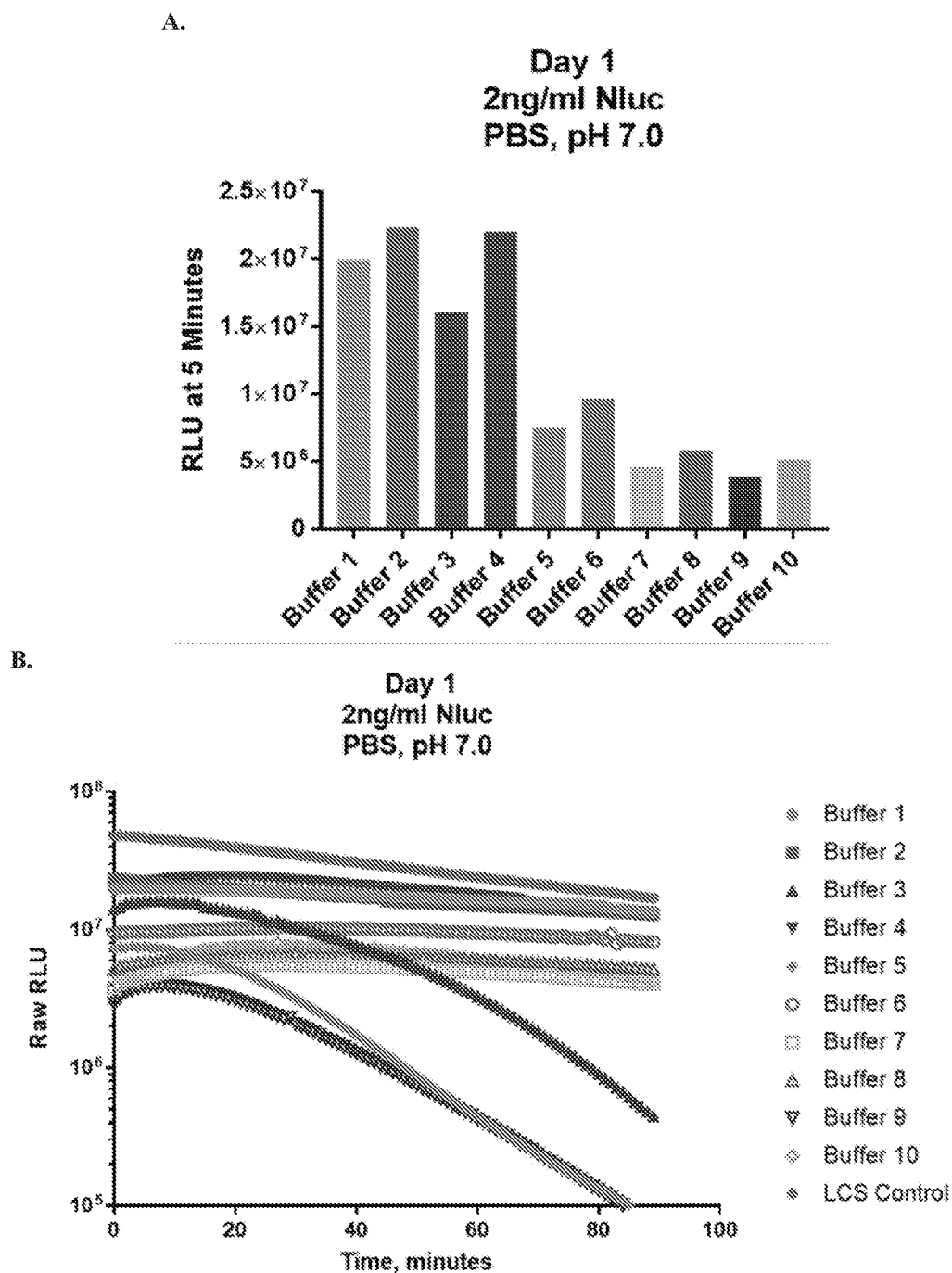


FIG. 43 (cont'd)

C.

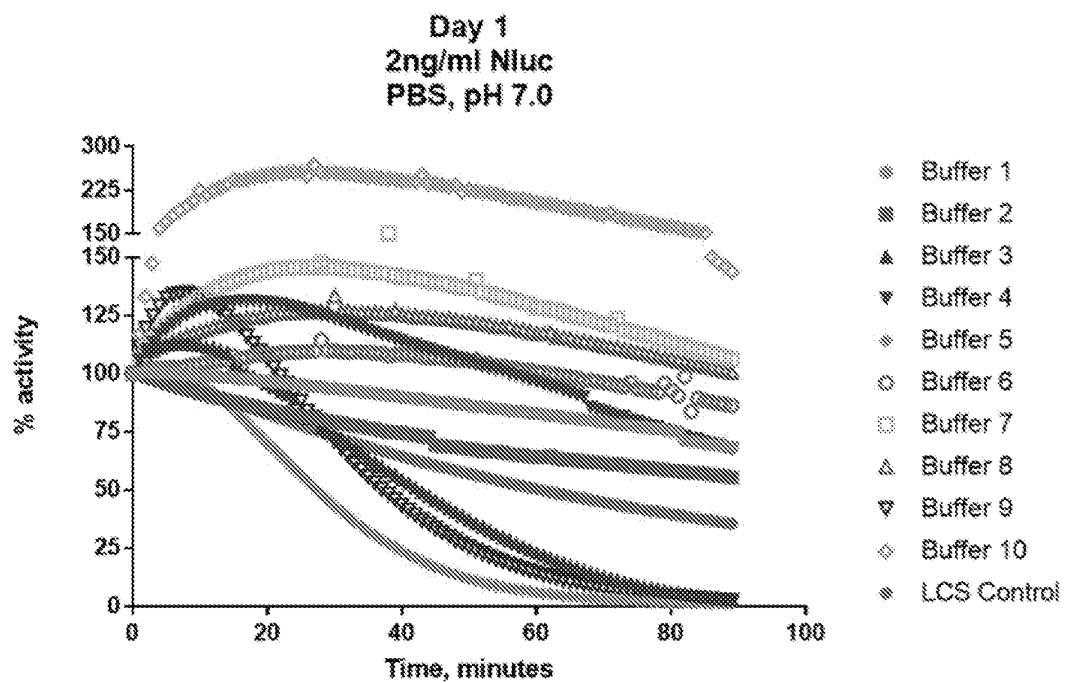


FIG. 44

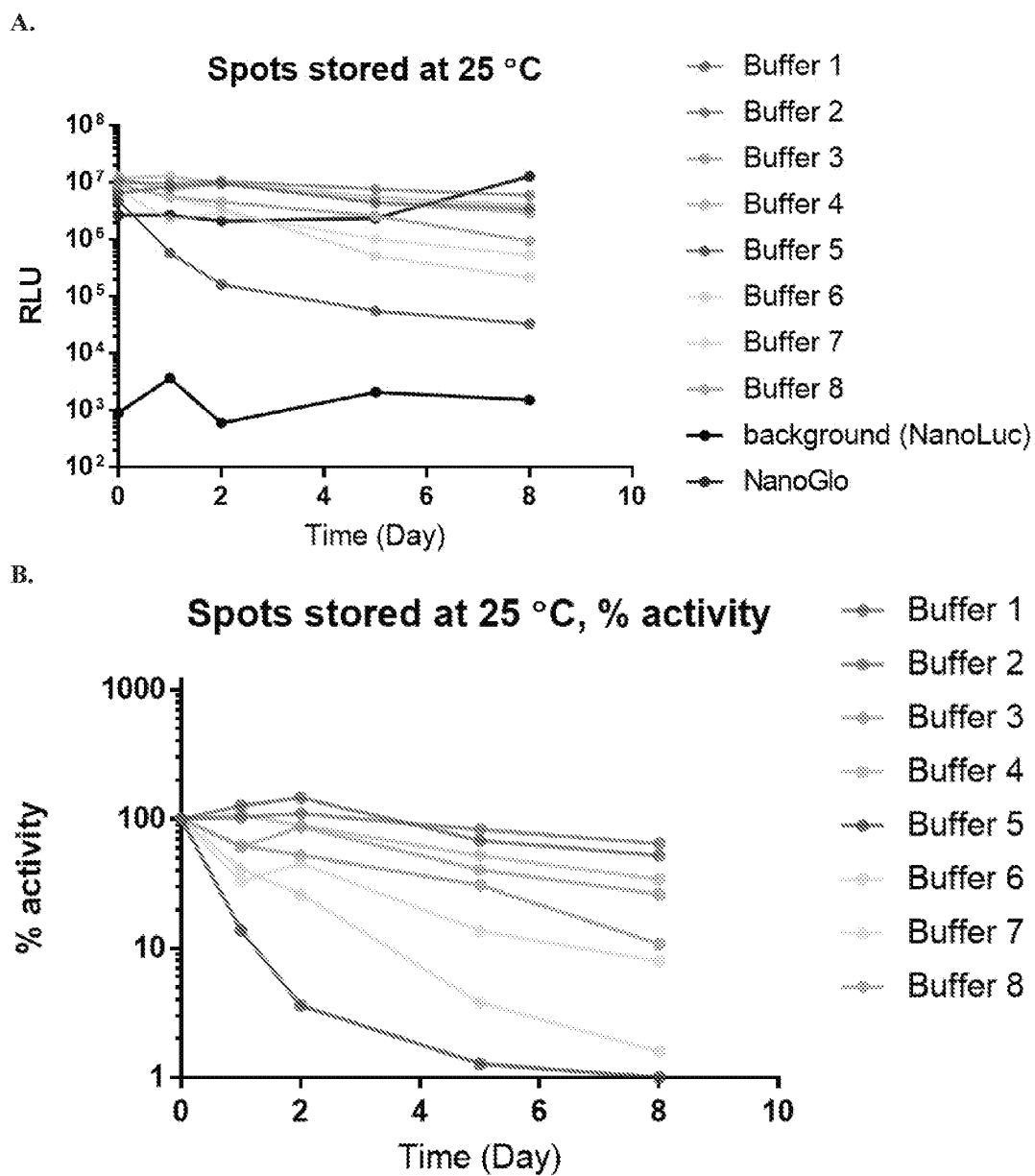


FIG. 44 (cont'd)

C.

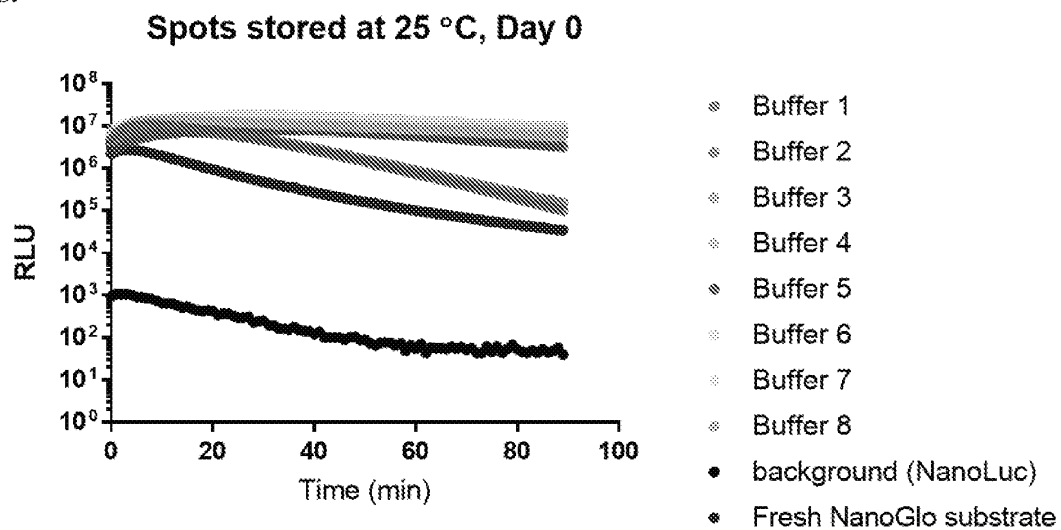


FIG. 45

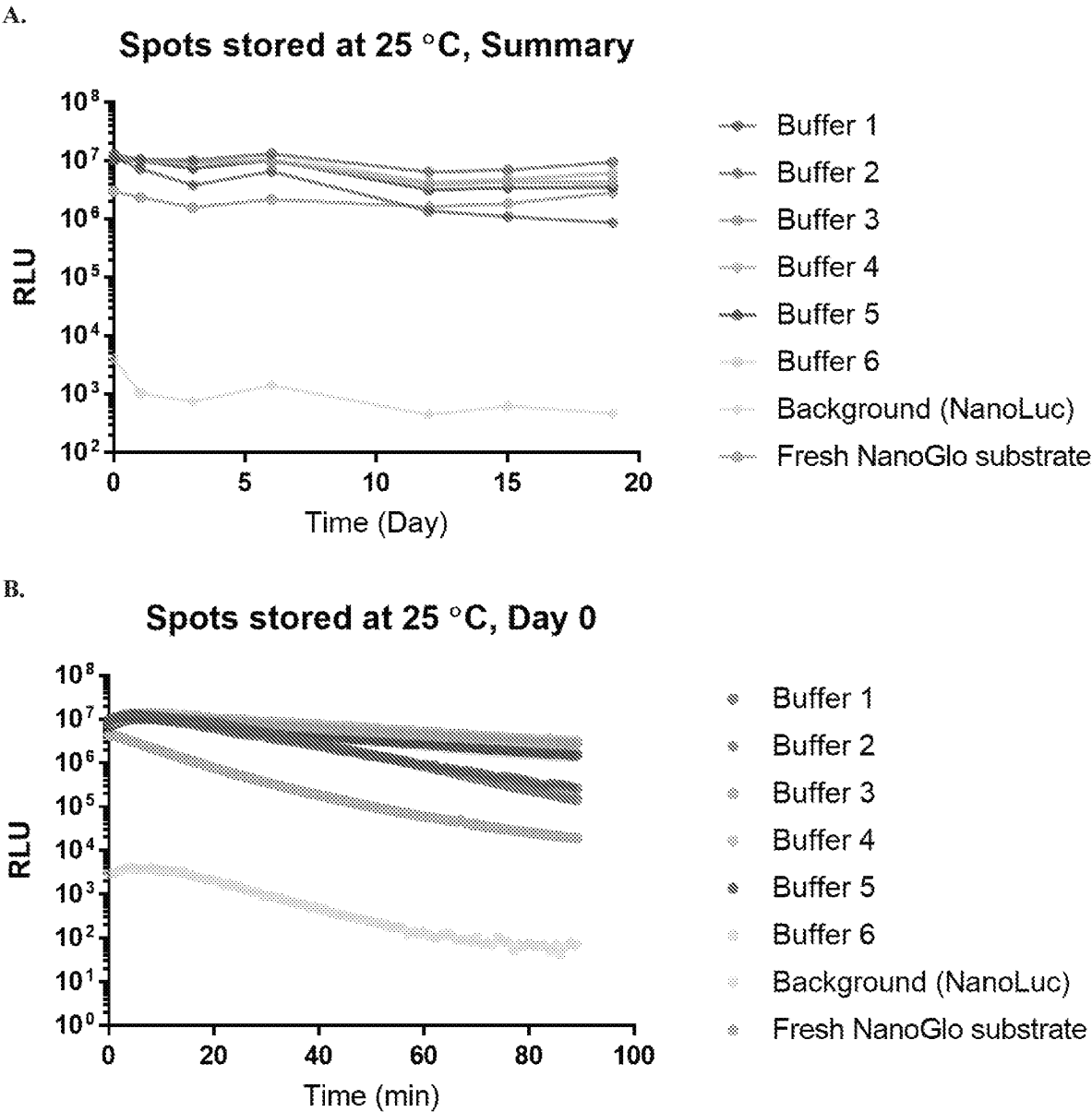


FIG. 46

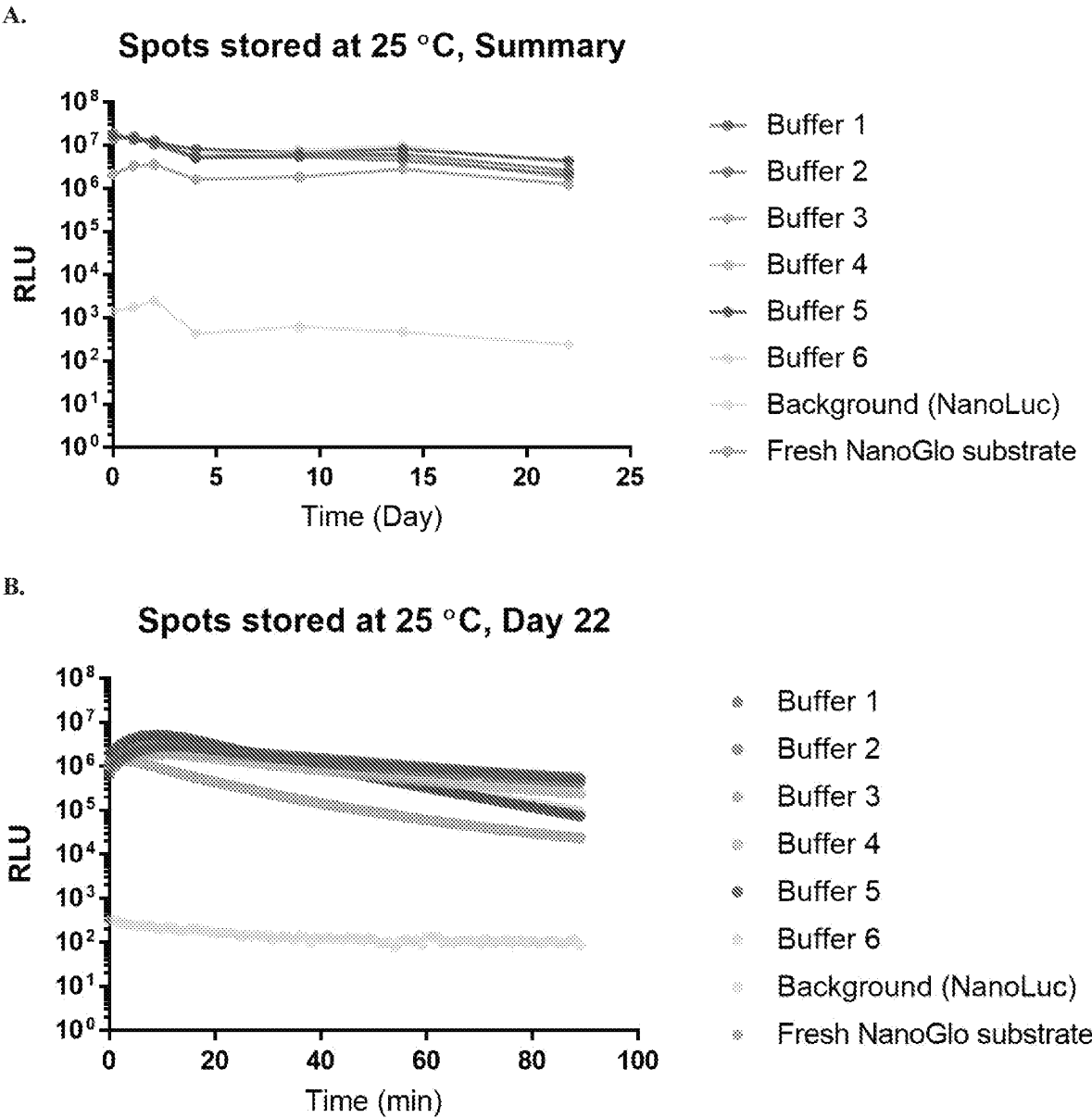


FIG. 47A

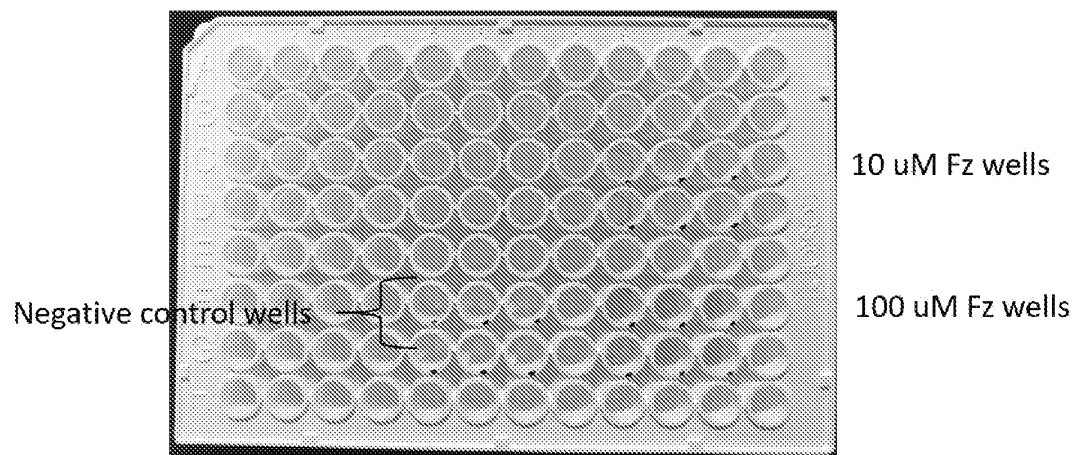


FIG. 47B

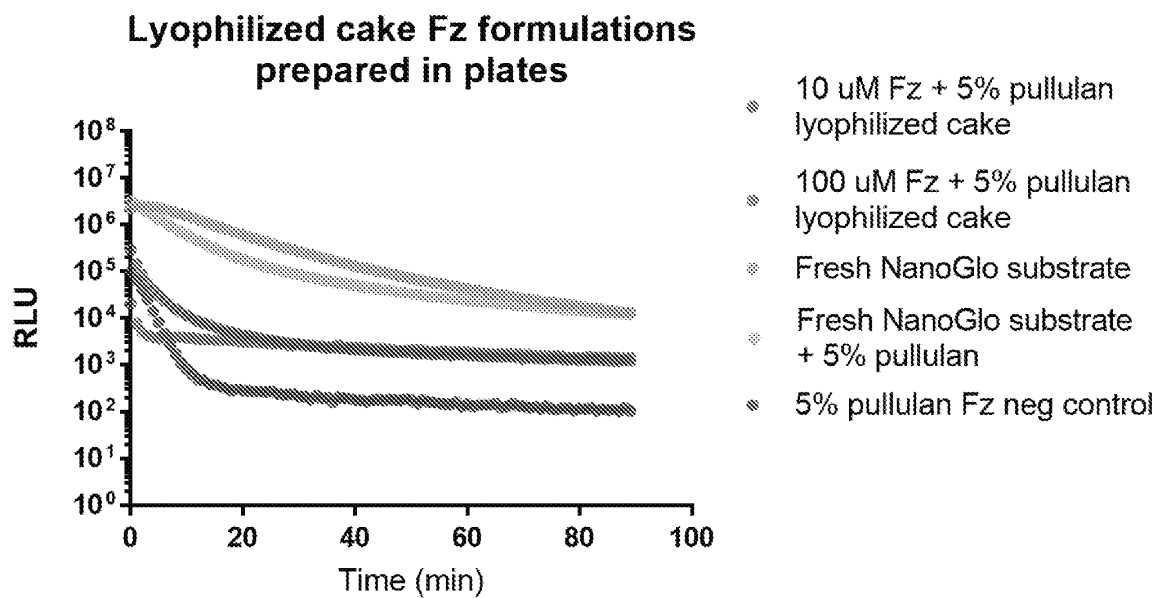


FIG. 48

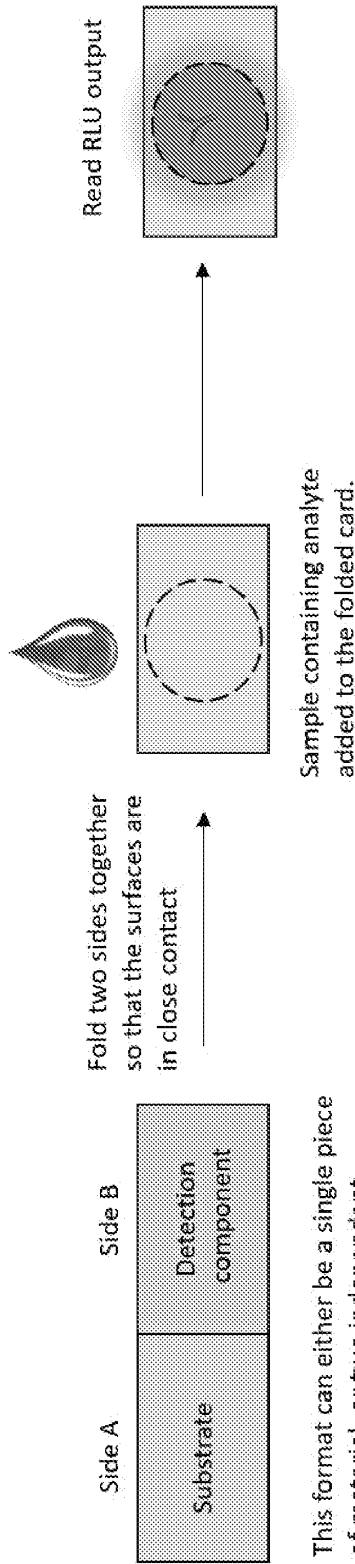


FIG. 49

Effect of sodium ascorbate addition
to Nano-Glo assay buffer

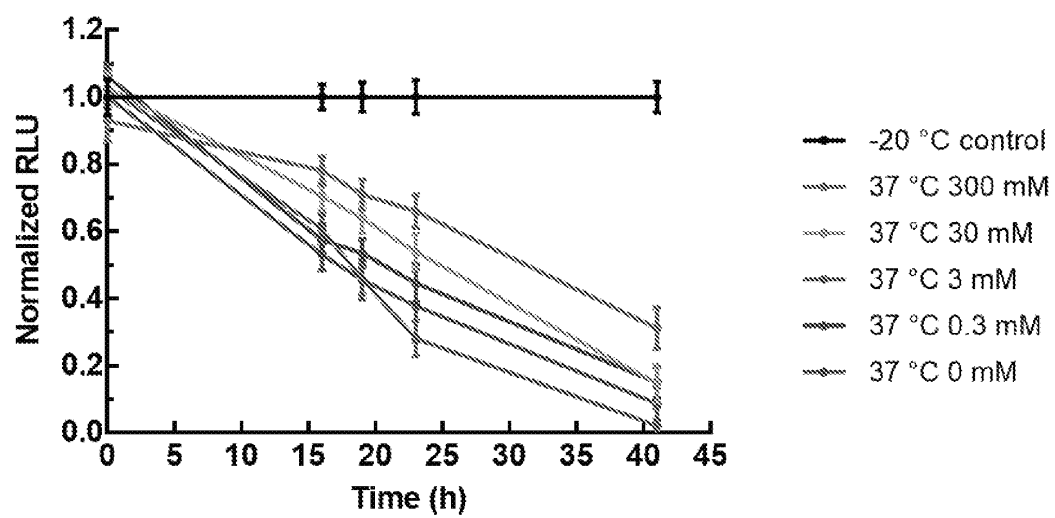


FIG. 50

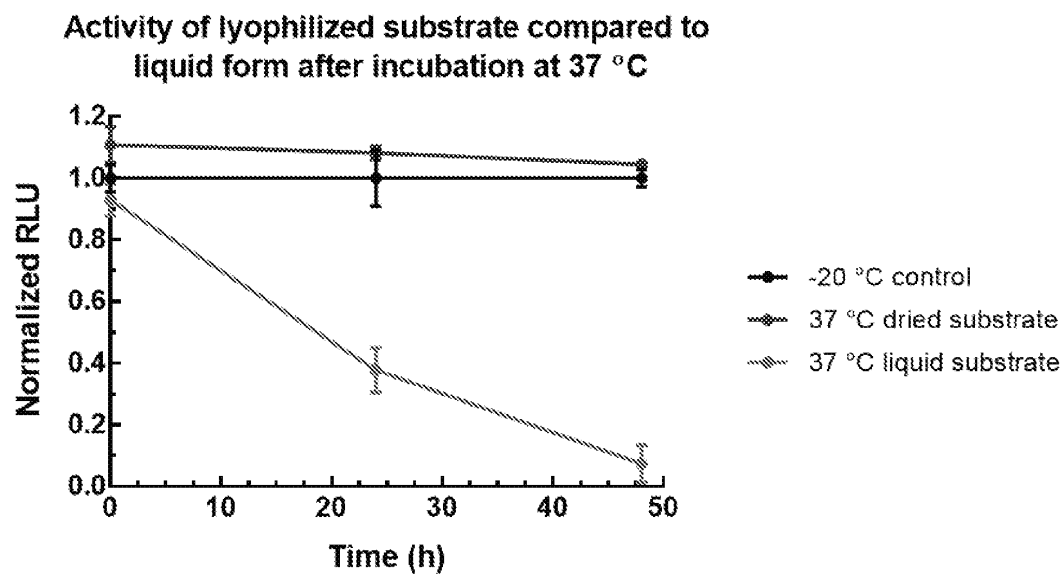
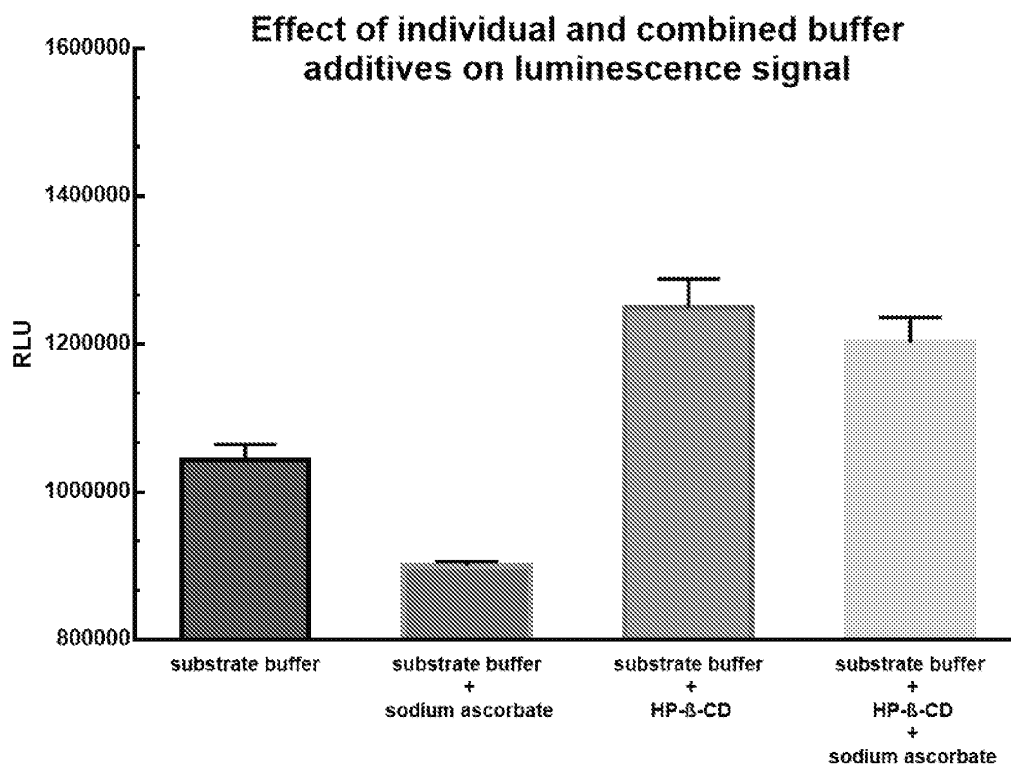


FIG. 51

A.



B.

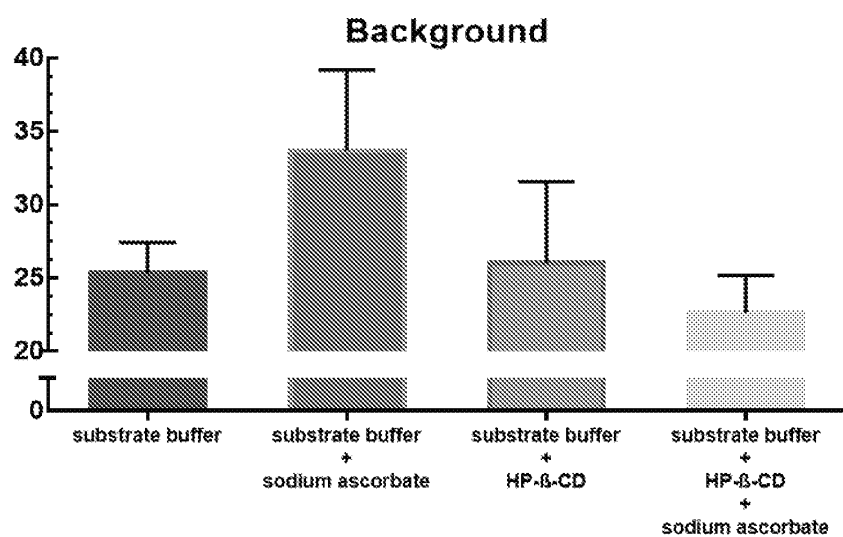


FIG. 52

Long term stability of pulullan encapsulated substrate at room temperature and 37 °C

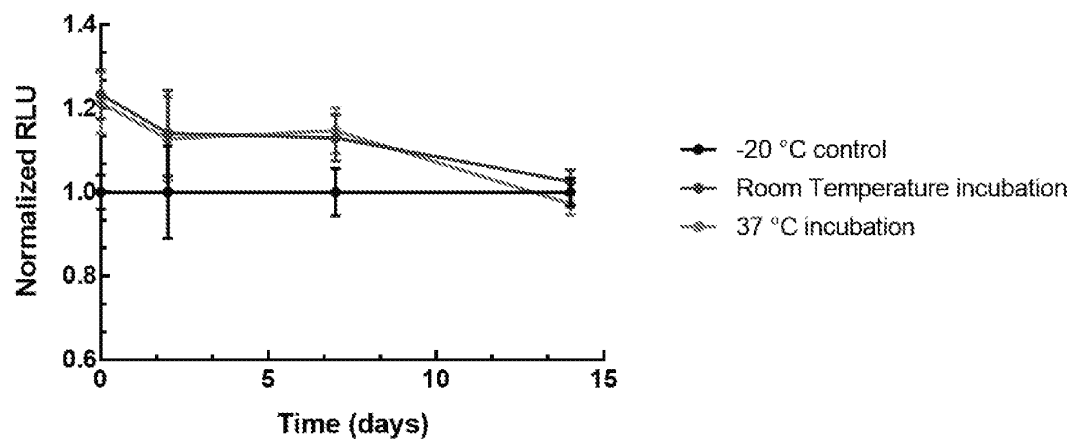


FIG. 53

Condition 1

Condition 2

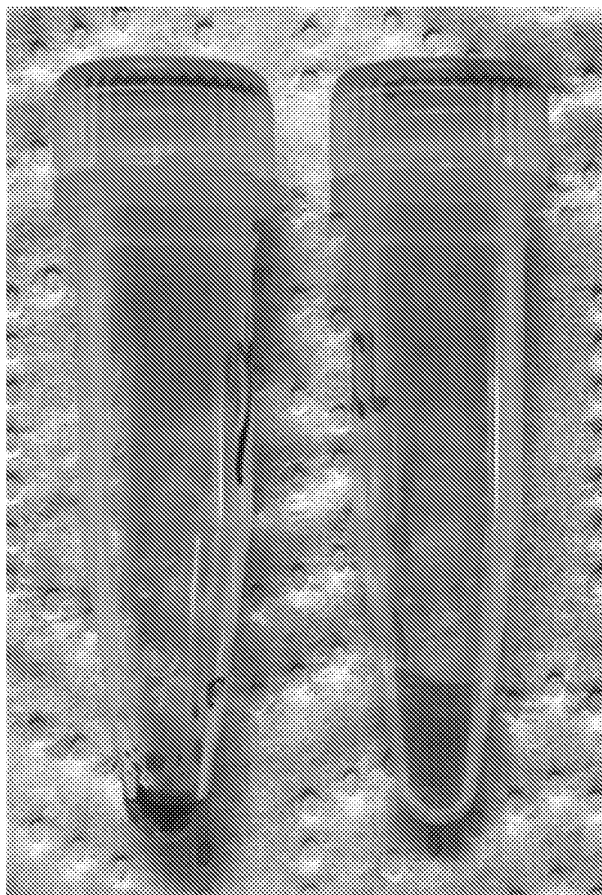


FIG. 54A

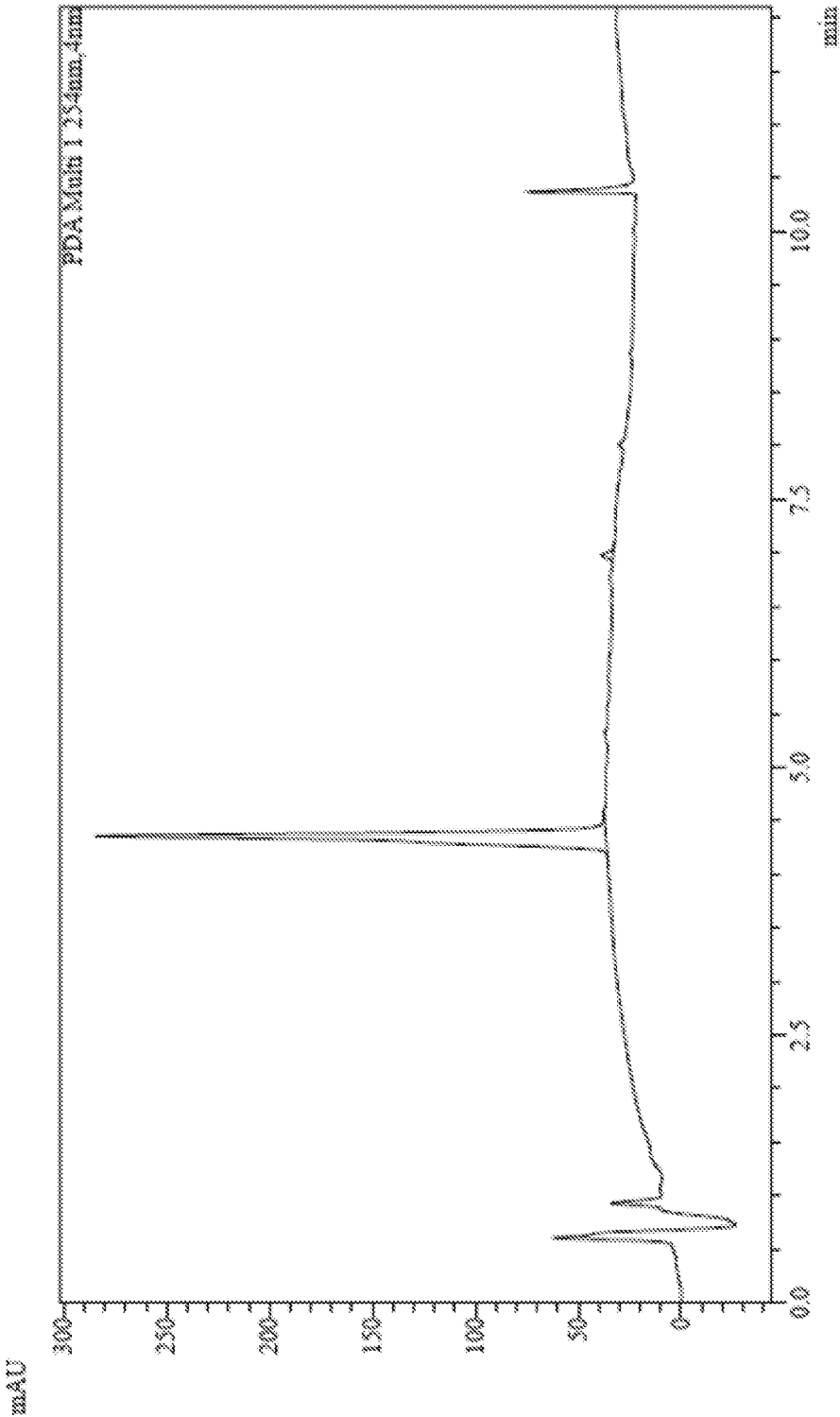
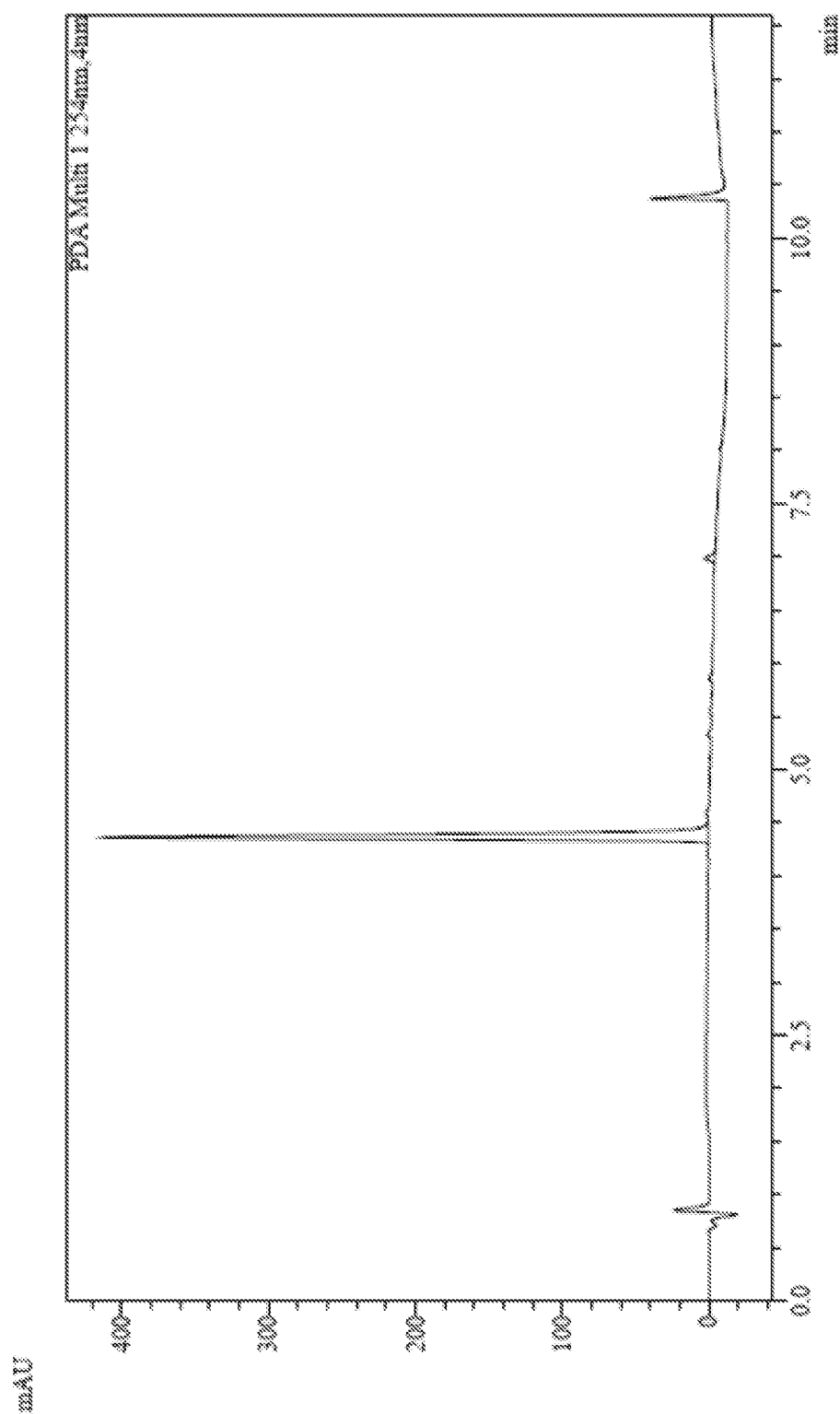


FIG. 54B



SUBSTITUTE SHEET (RULE 26)

FIG. 54C

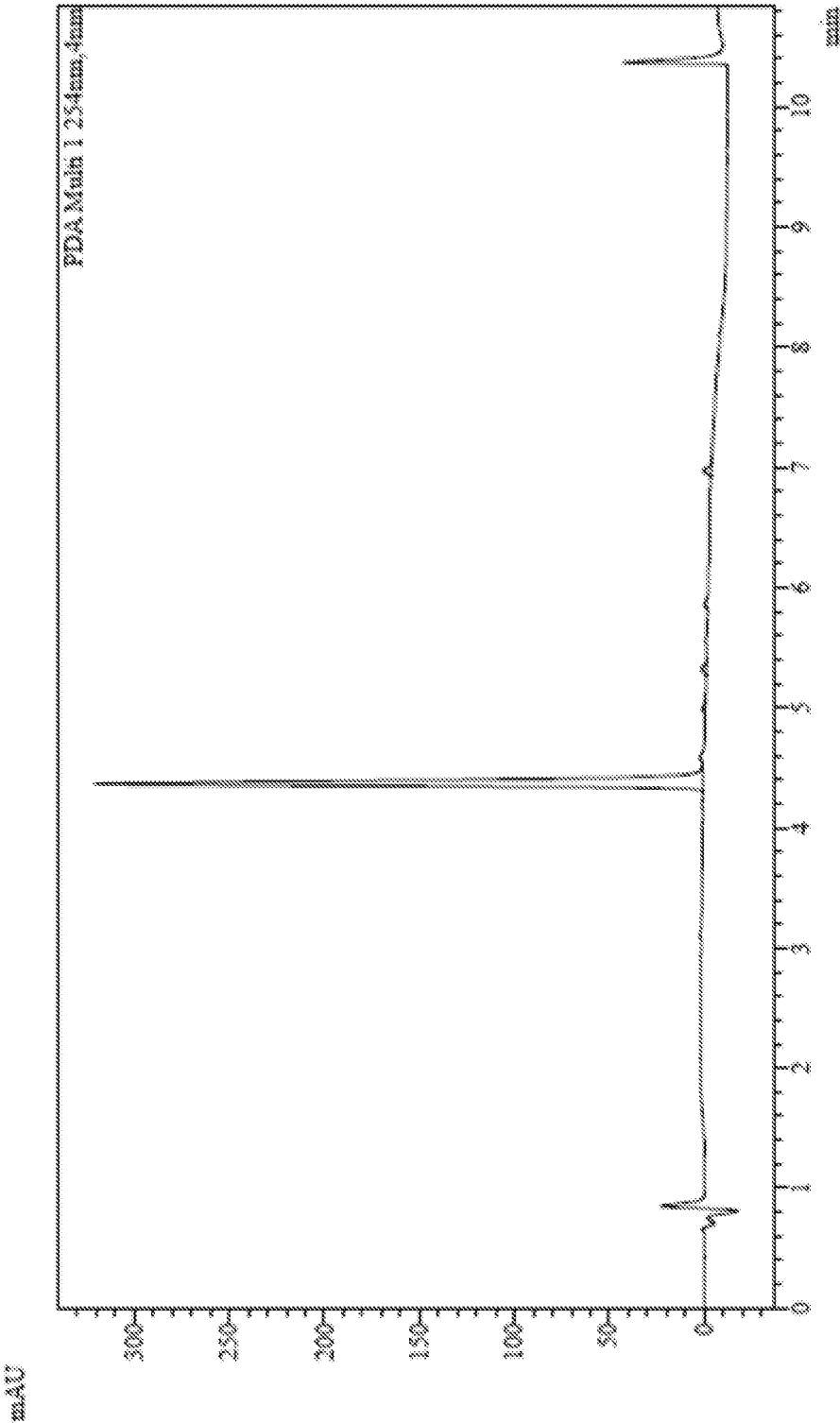
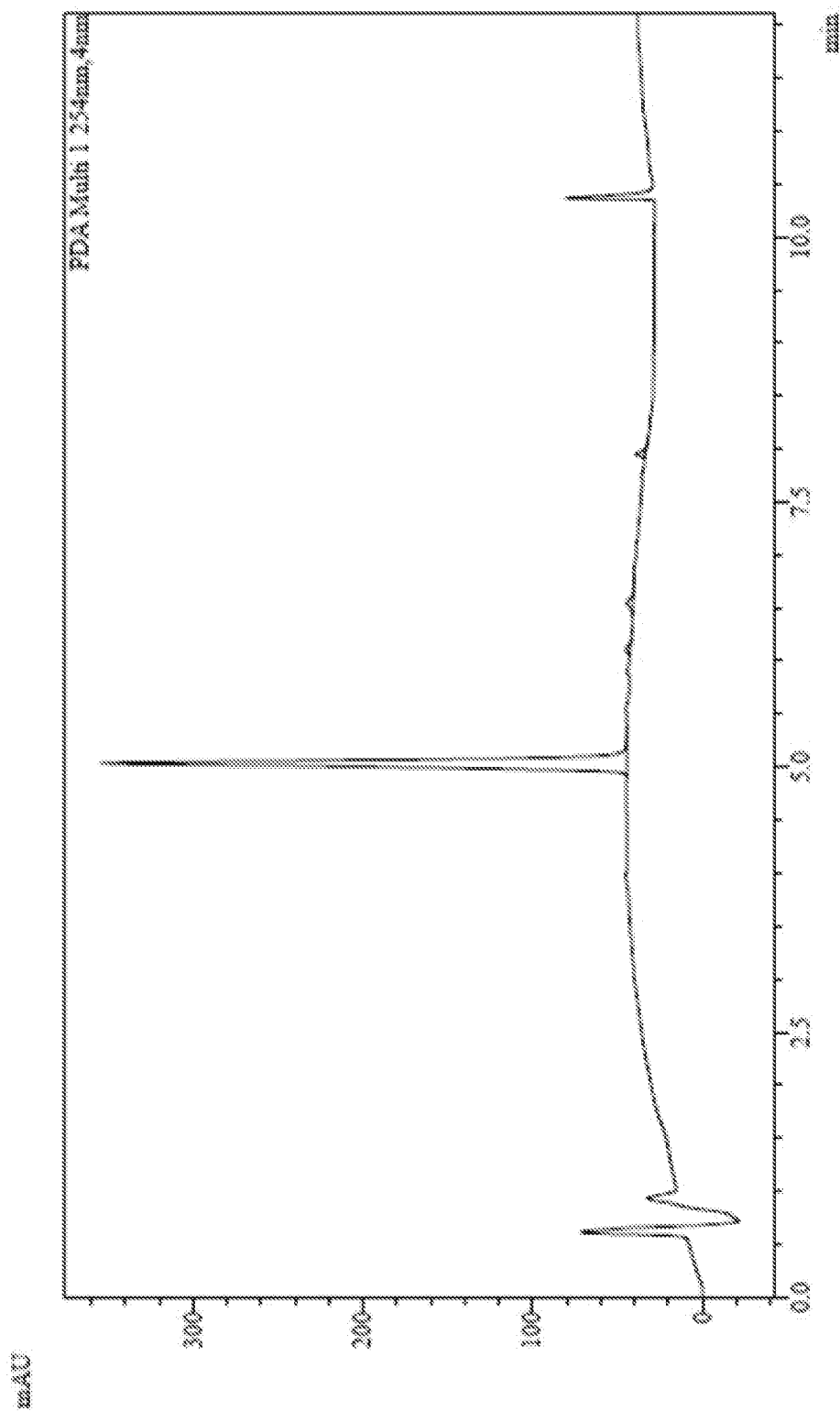


FIG. 55A



SUBSTITUTE SHEET (RULE 26)

FIG. 55B

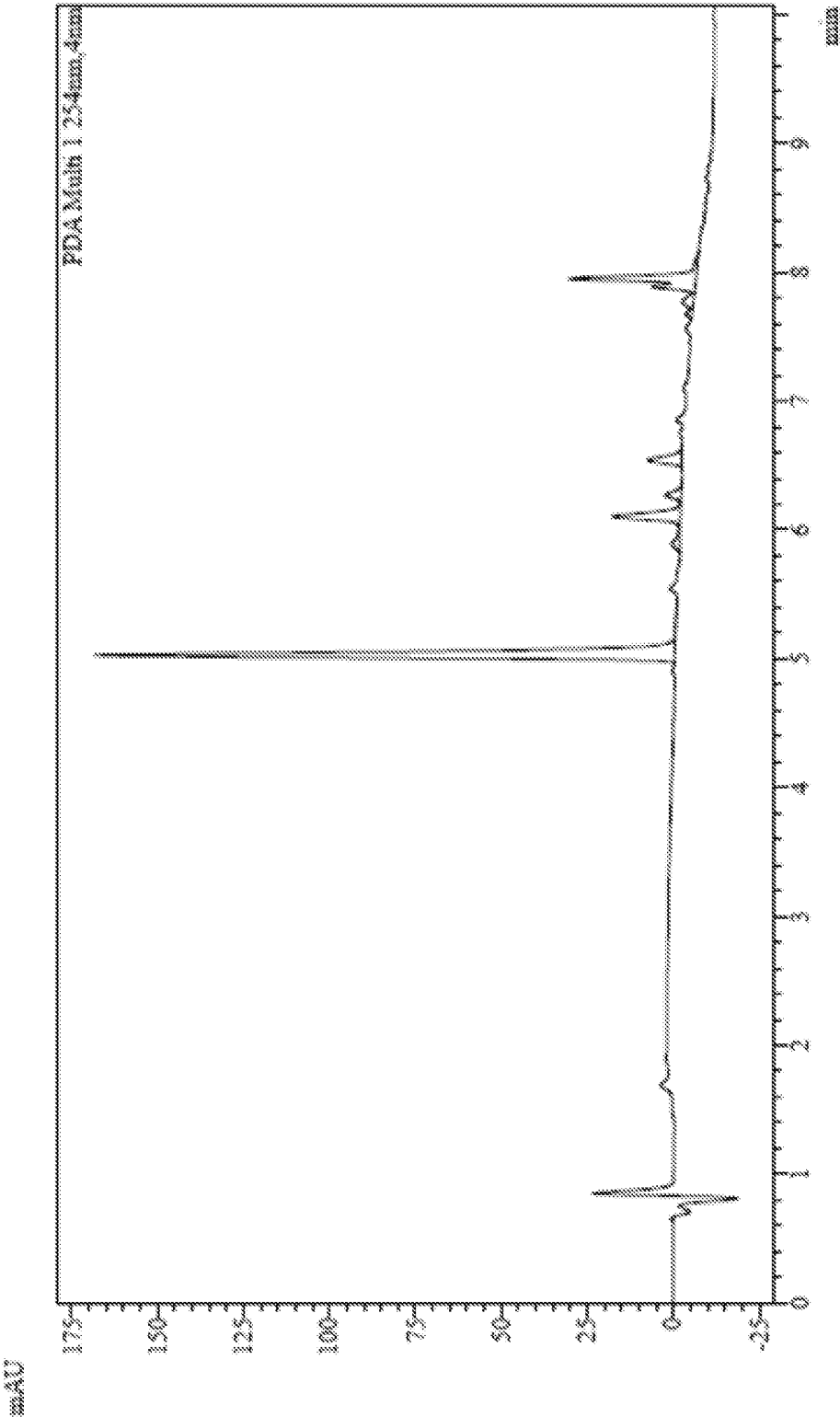


FIG. 55C

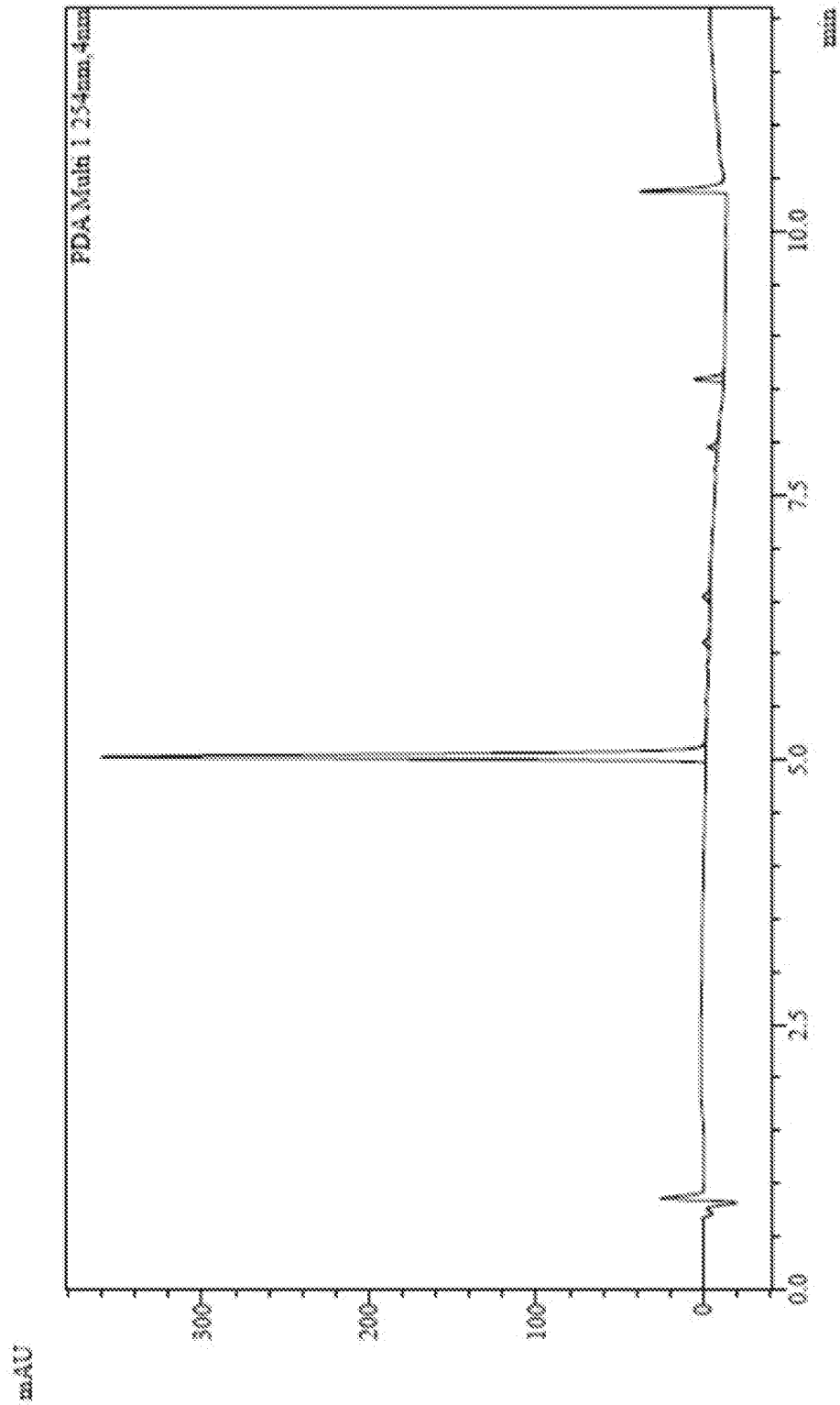


FIG. 56

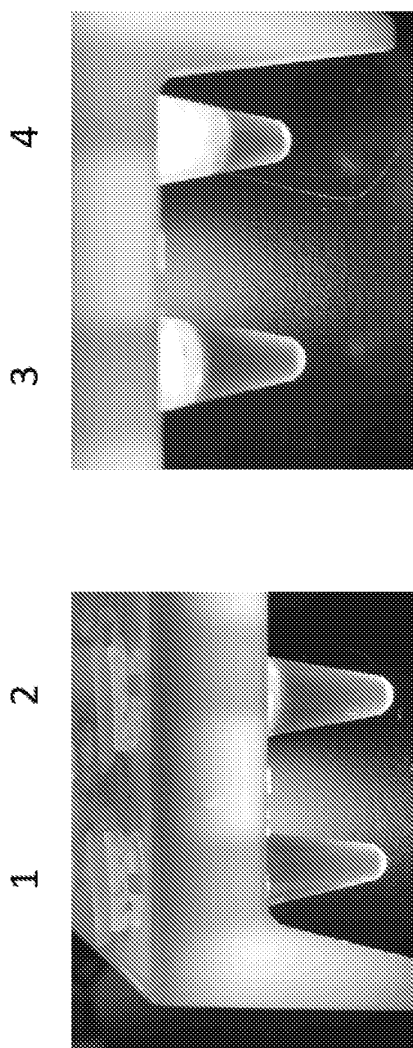


FIG. 57

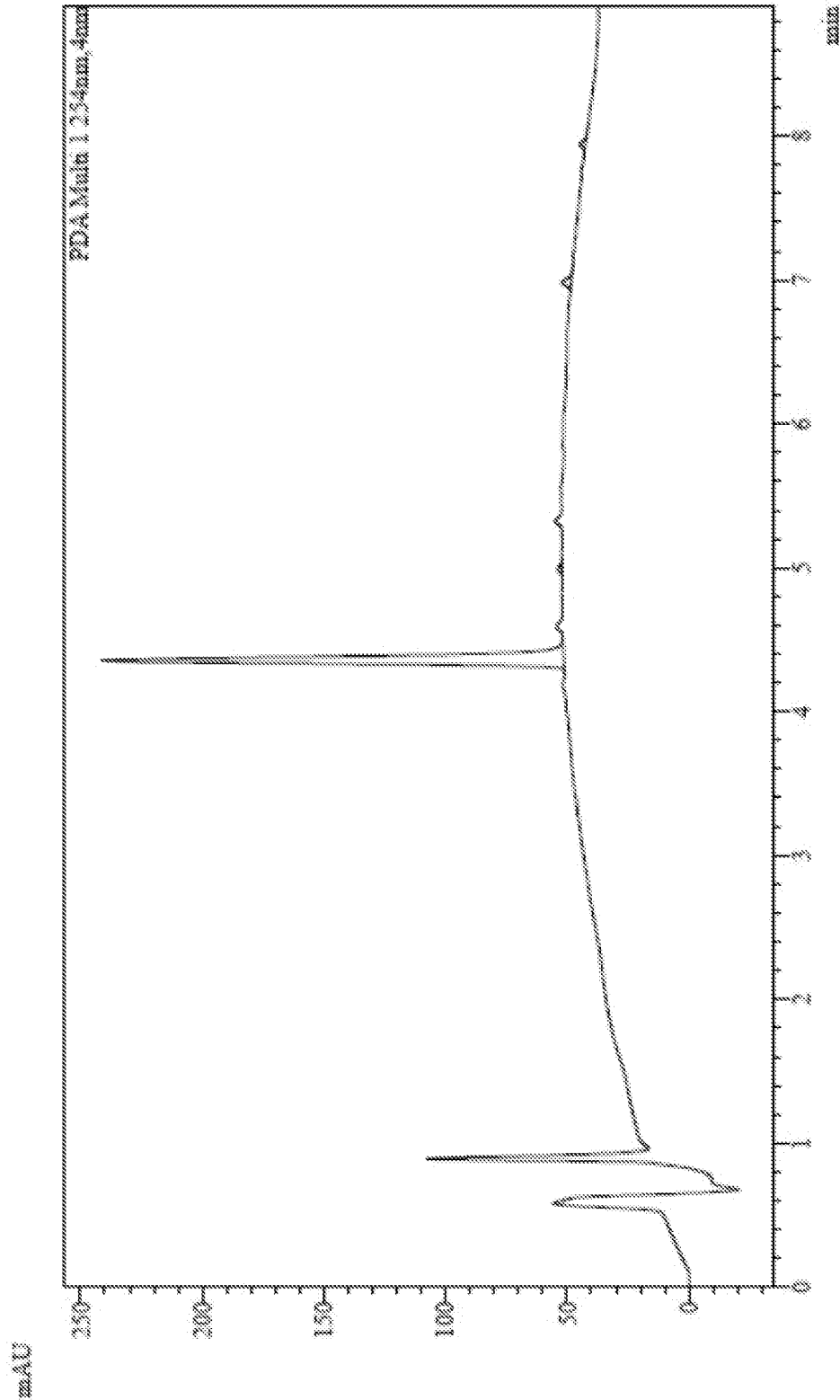
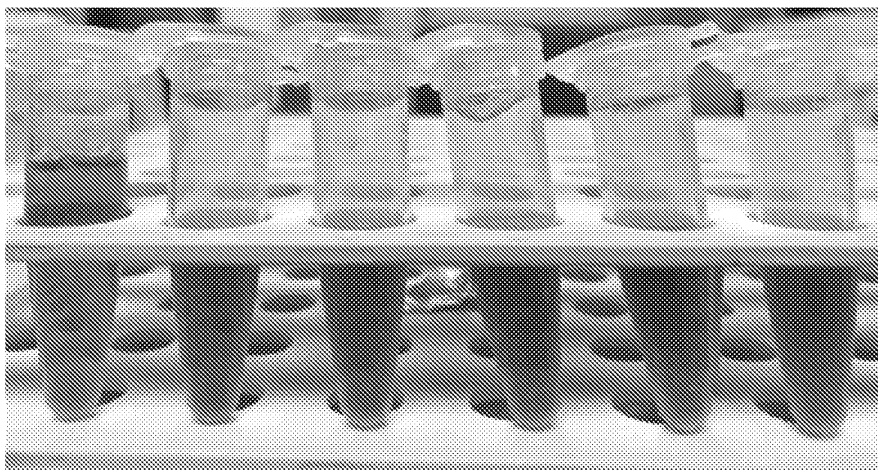


FIG. 58

A.

7x w/w 6x 5x 4x 3x 2x



B.

7x w/w 6x 5x 4x 3x 2x

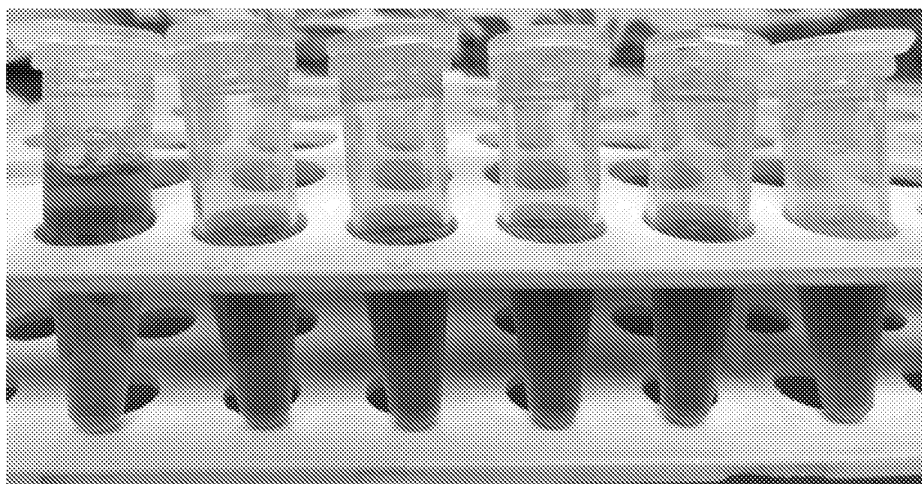
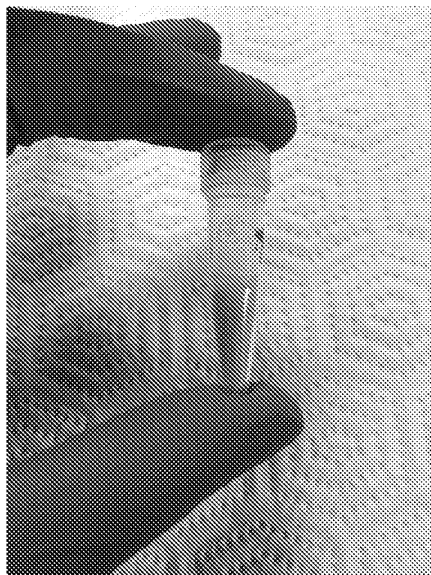


FIG. 59

A.



B.

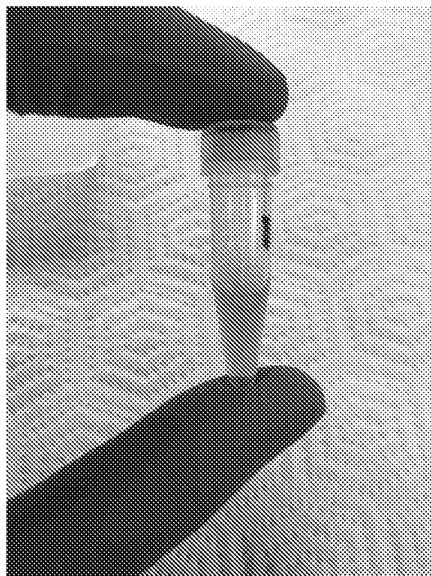
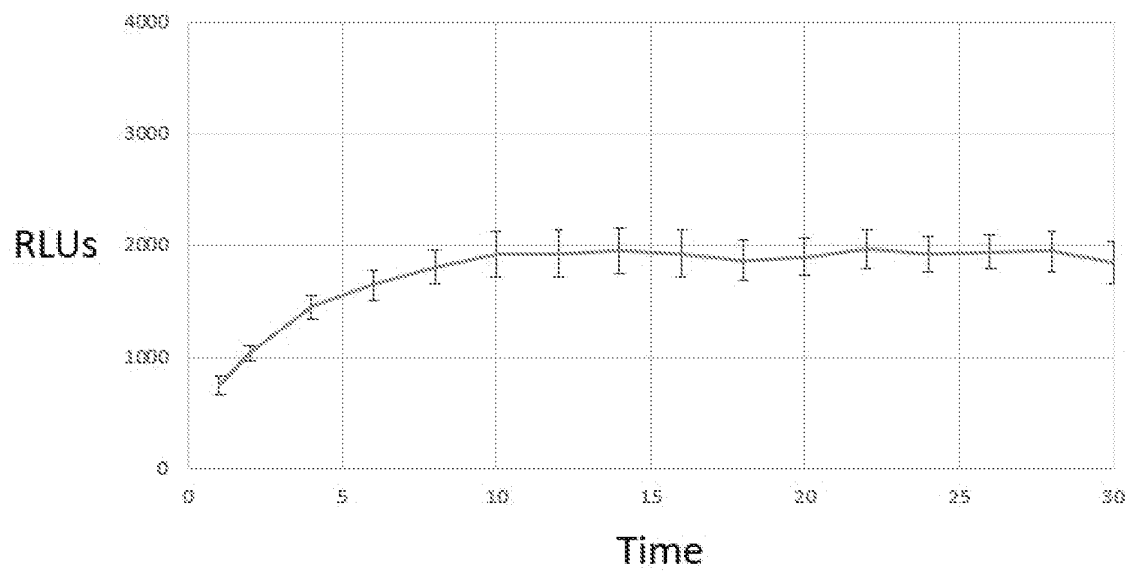


FIG. 60

A.



B.

min0-max3000

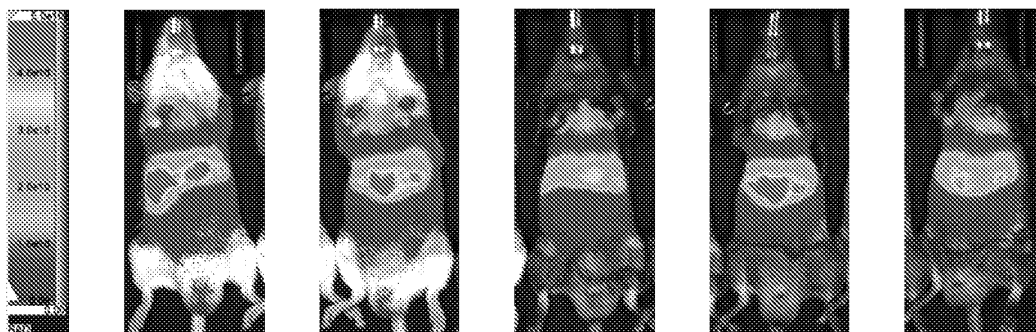
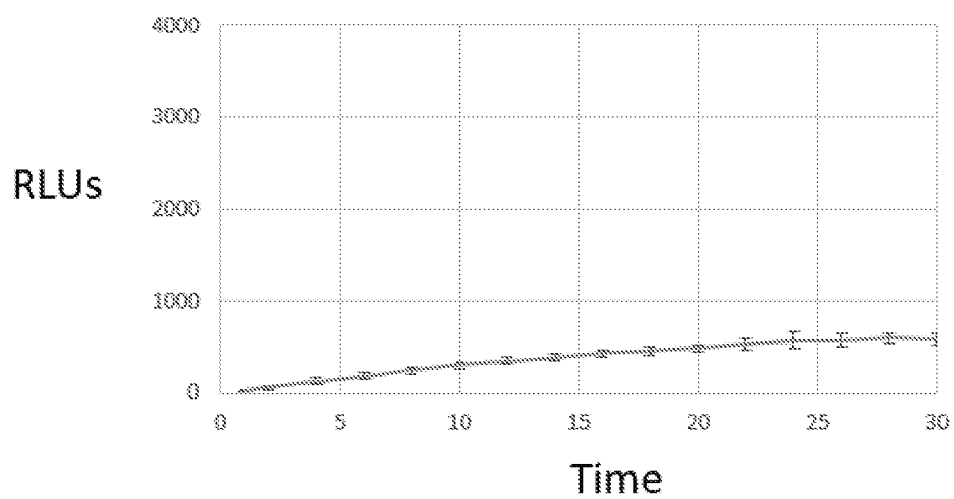


FIG. 61

A.



B.

min0-max3000

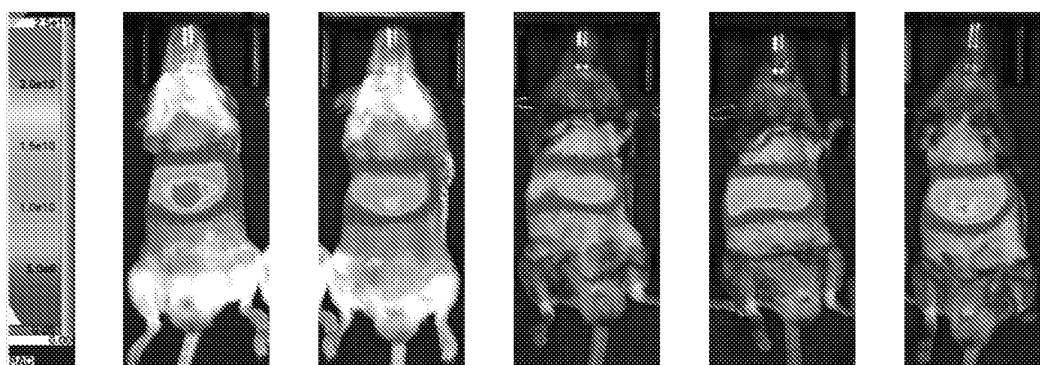
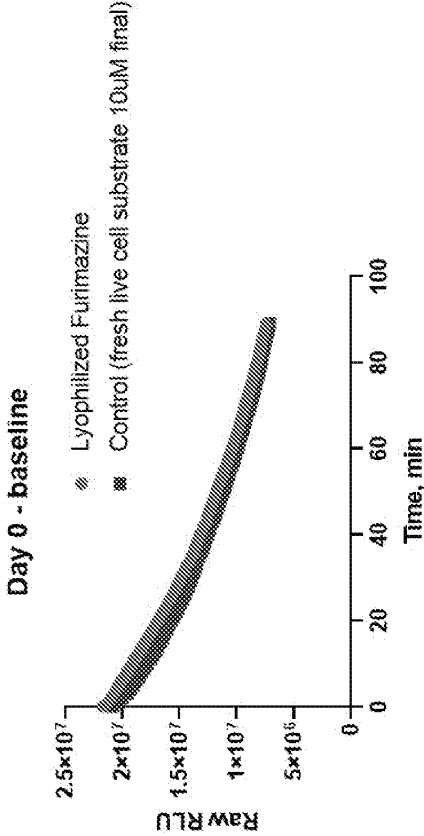


FIG. 62A-B

B



A



FIG. 63

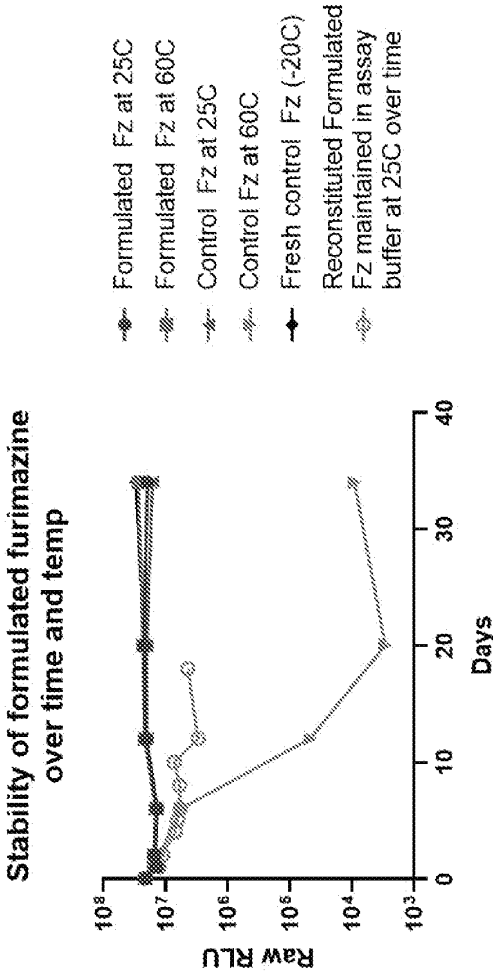


FIG. 64A-C

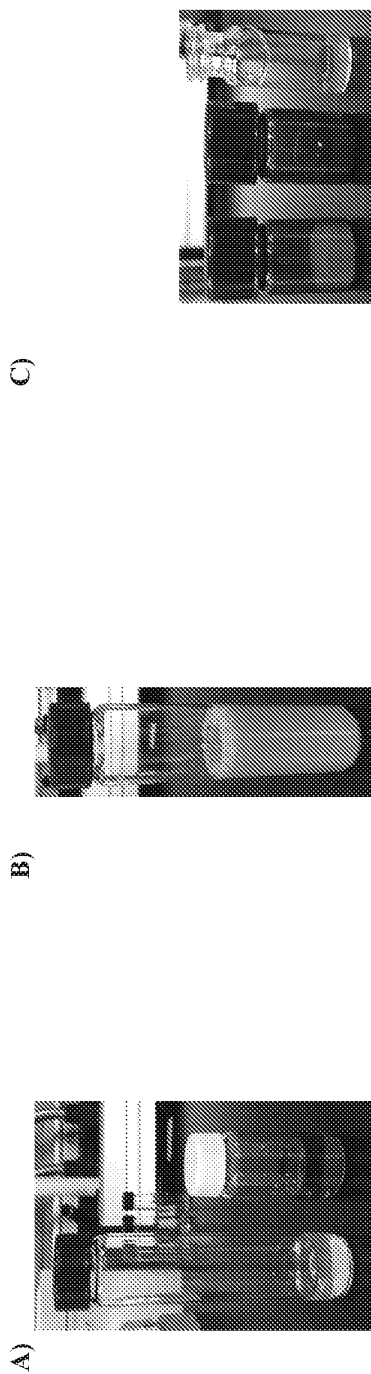


FIG. 65

