

FIG. 1

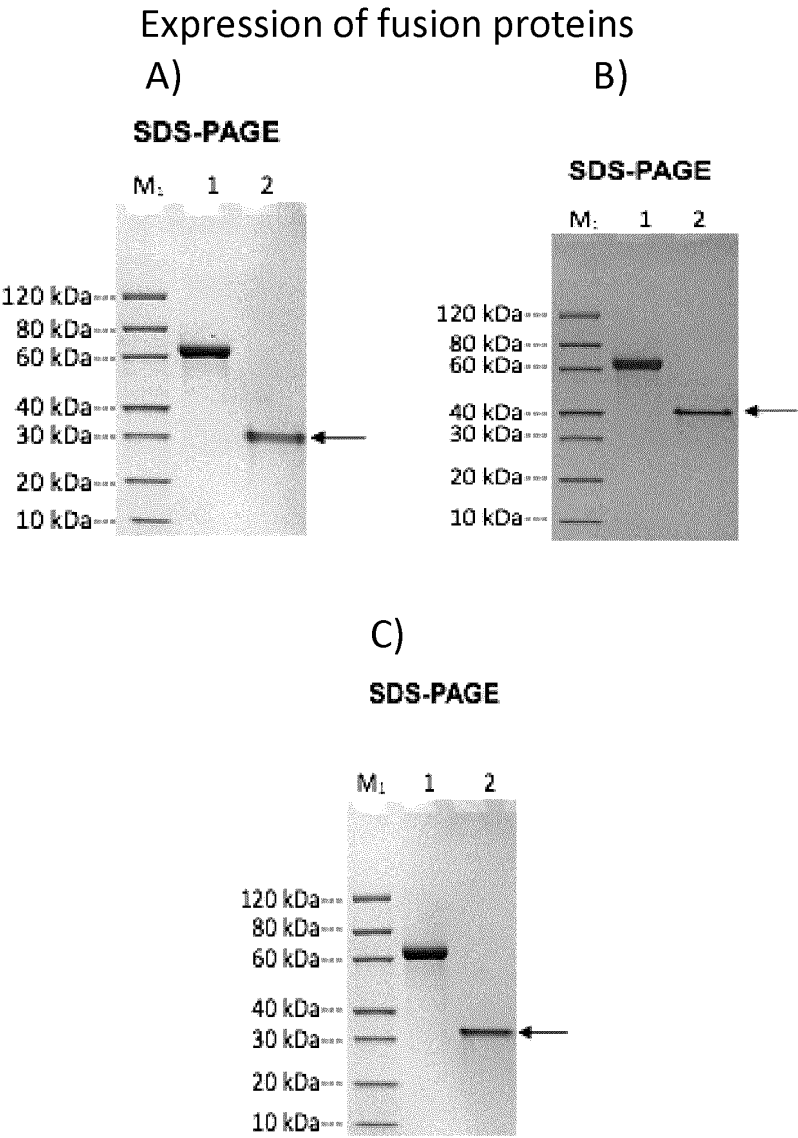


FIG. 2

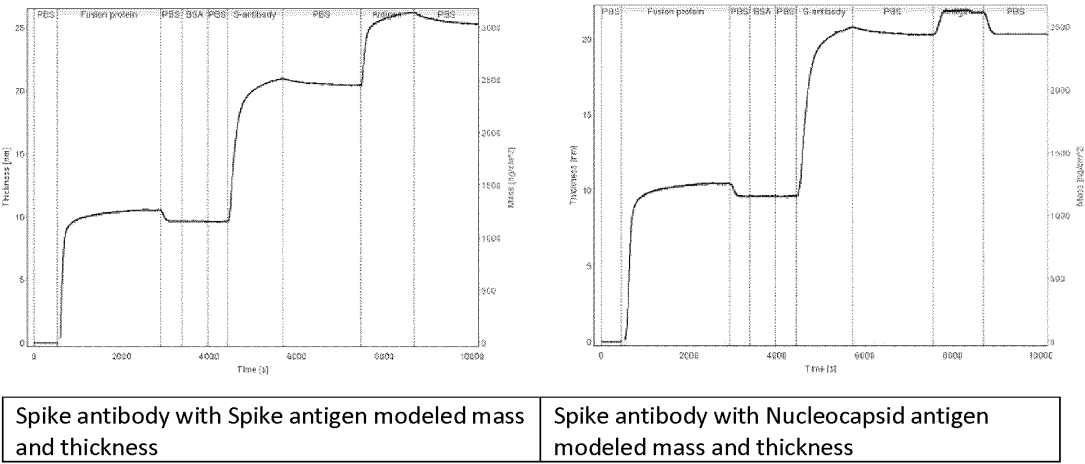


FIG. 3

Gold-fusion protein binds to gold sensor using SPR

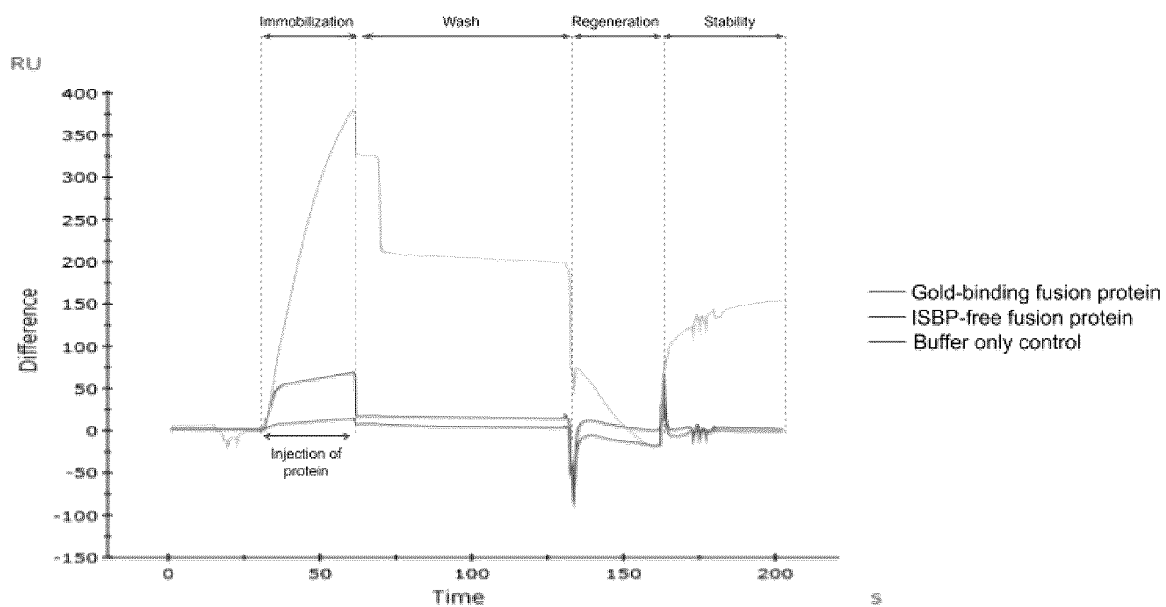


FIG. 4

S antibody binds to immobilized fusion protein using SPR

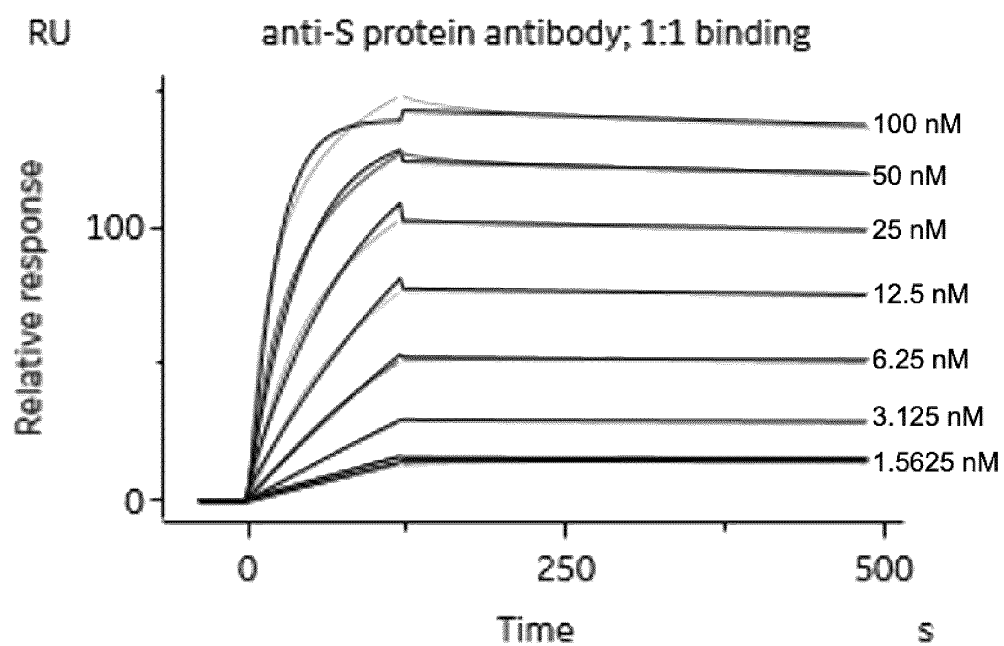
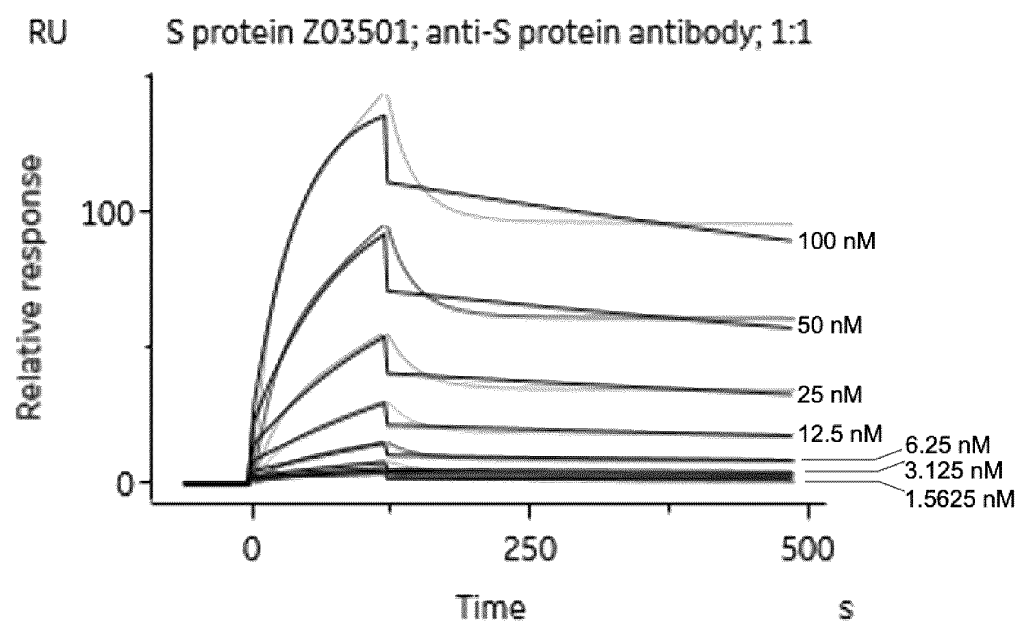


FIG. 5

S antigen binds to immobilized S antibody using SPR



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FIG. 6

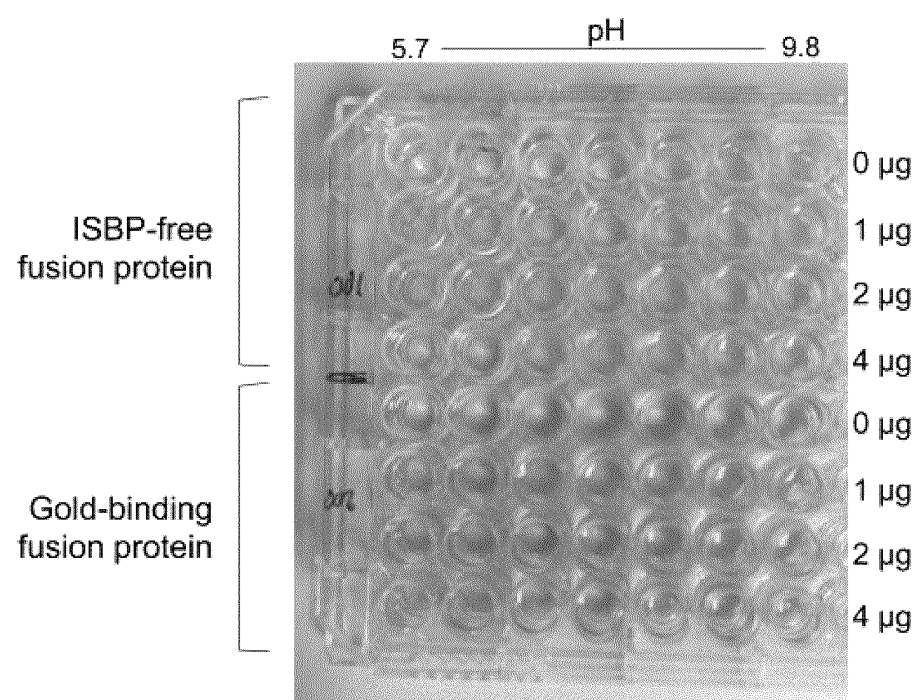
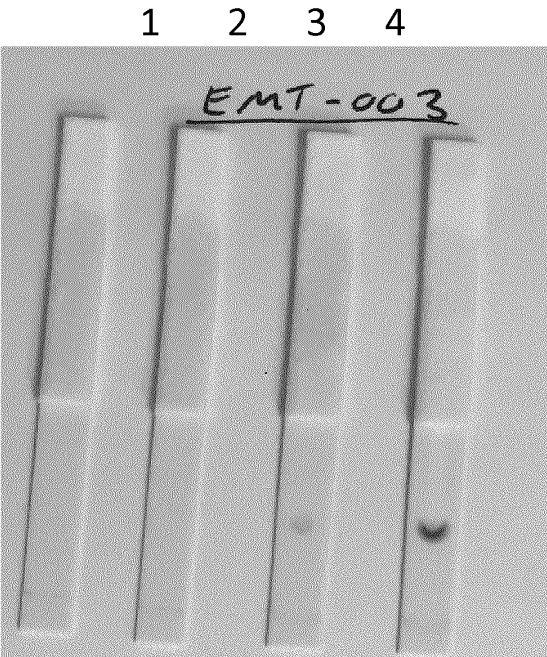


FIG. 7

Dot blot dipstick assay - S and N antibody conjugated to gold nanoparticles bind to S and N antigen, respectively



-	-	+	-	Anti-Spike antibody
-	-	-	+	Anti-Nucleocapsid antibody
+	-	+	-	Spike protein antigen
-	+	-	+	Nucleocapsid protein antigen

FIG. 8

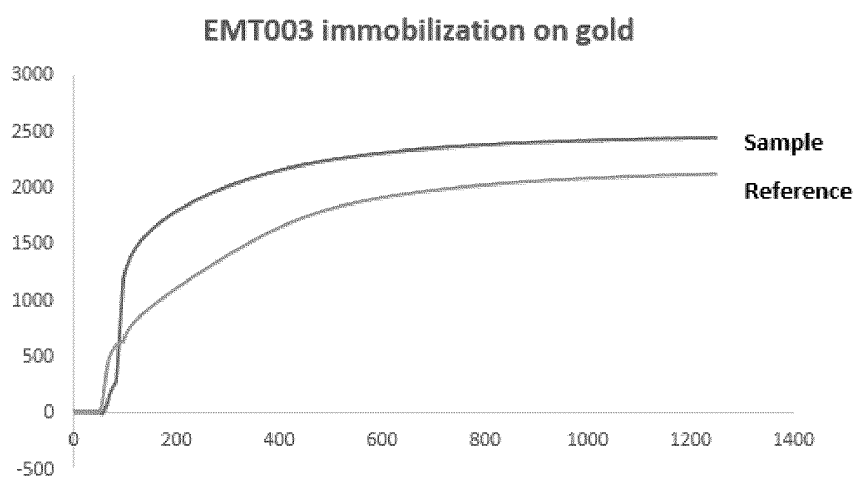
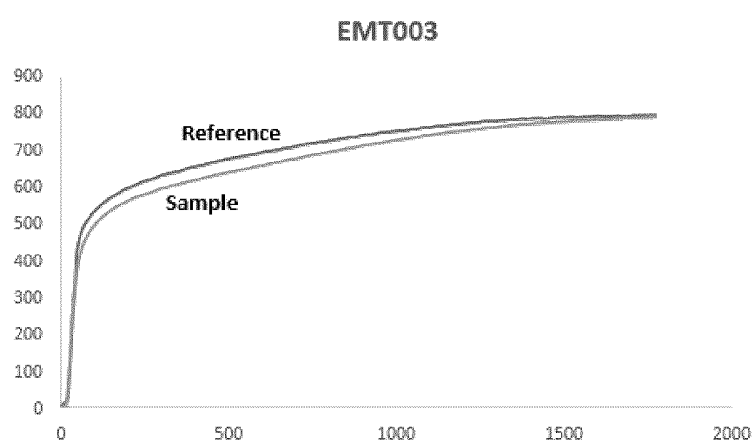


FIG. 9

NHS-EDC mediated binding of EMT003



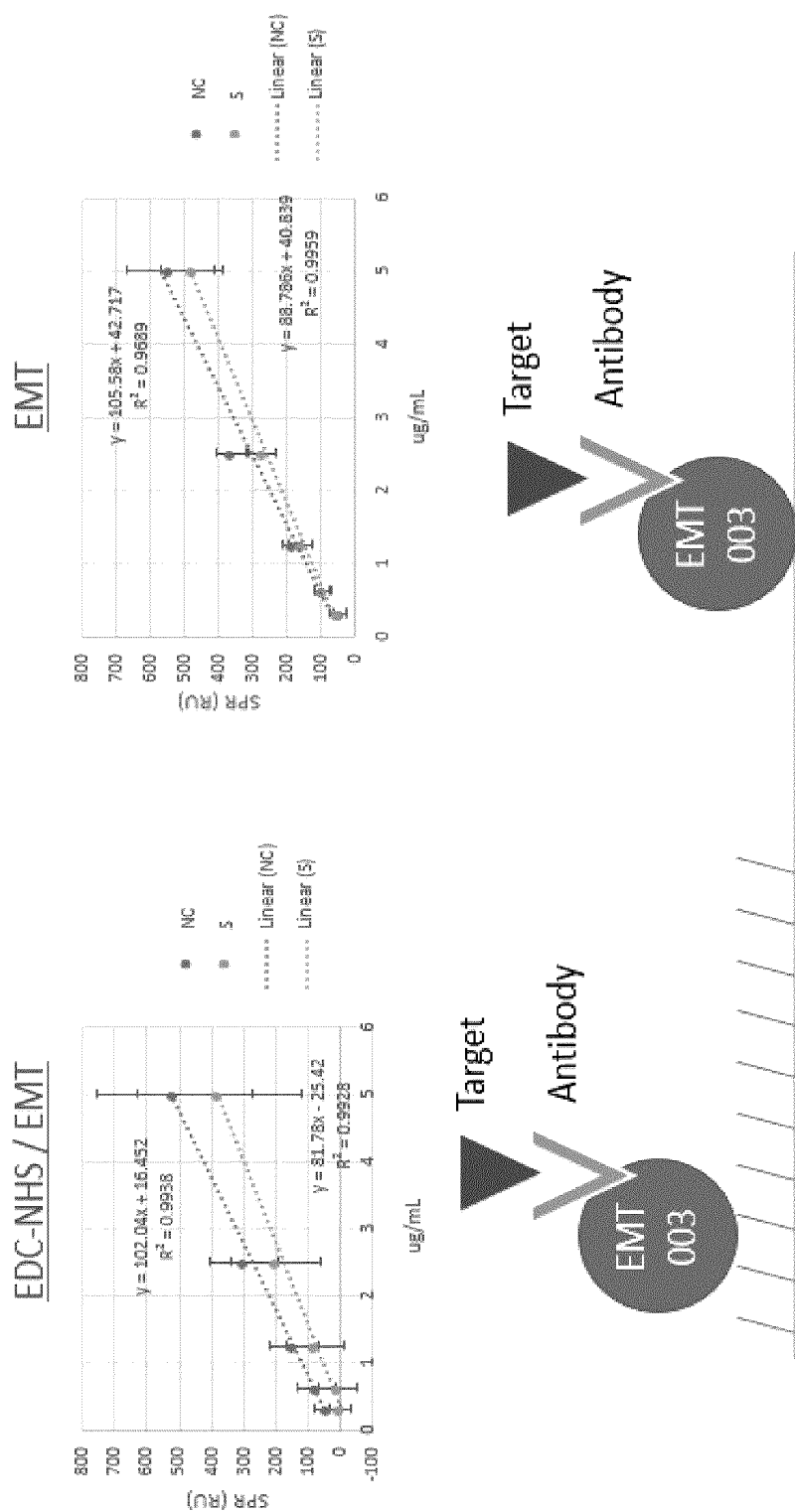


FIG. 11A

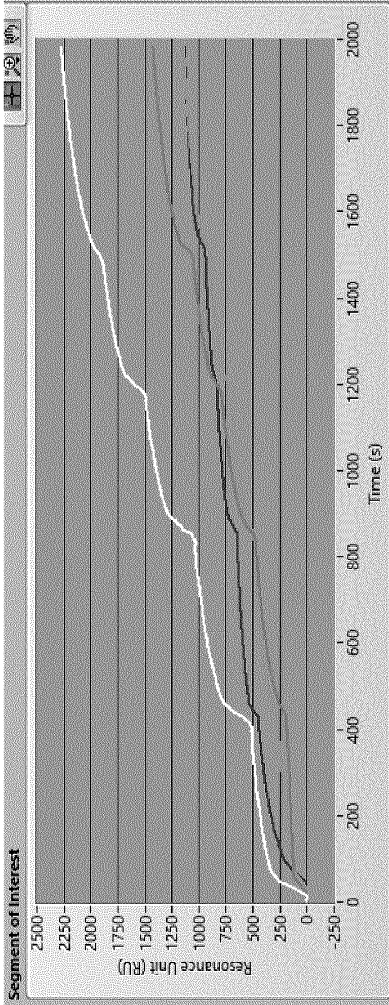


FIG. 11B

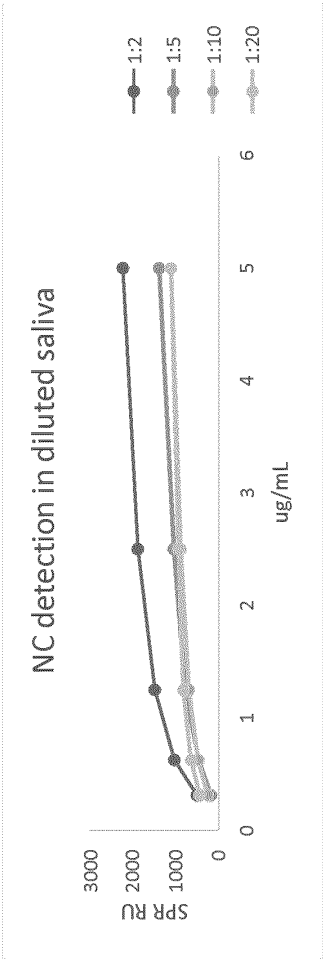


FIG. 12A

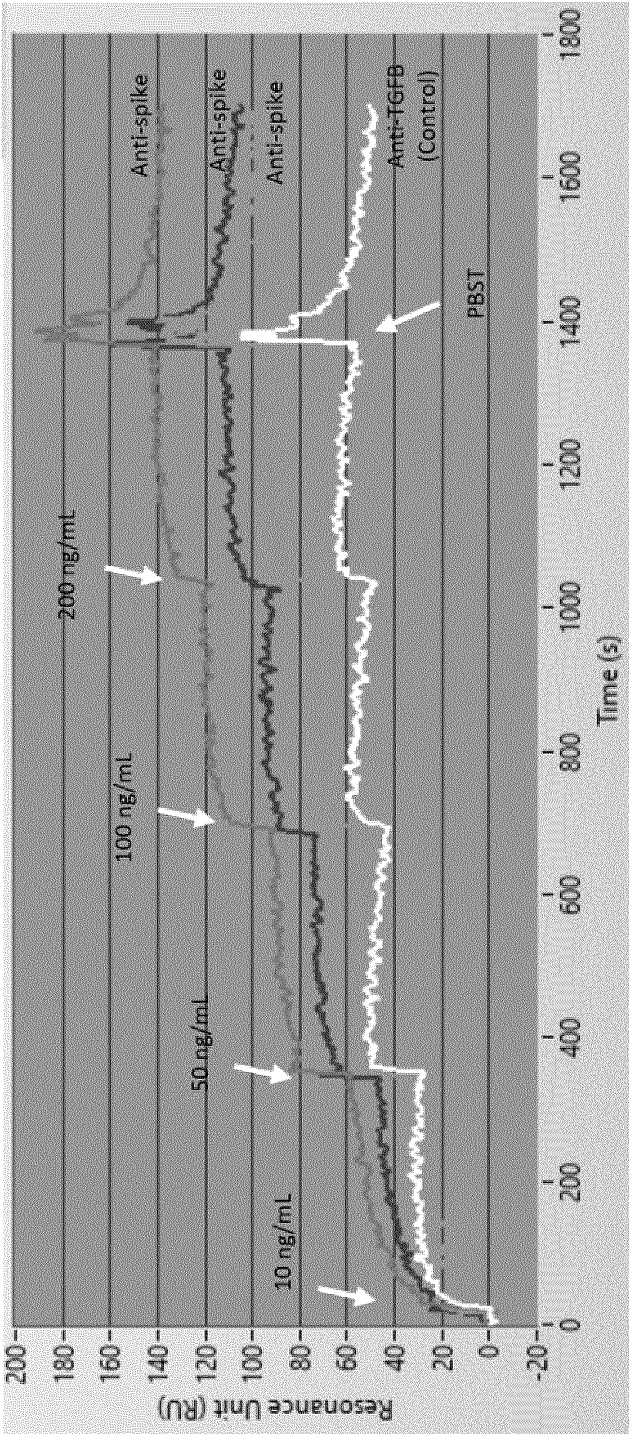


Fig. 12B

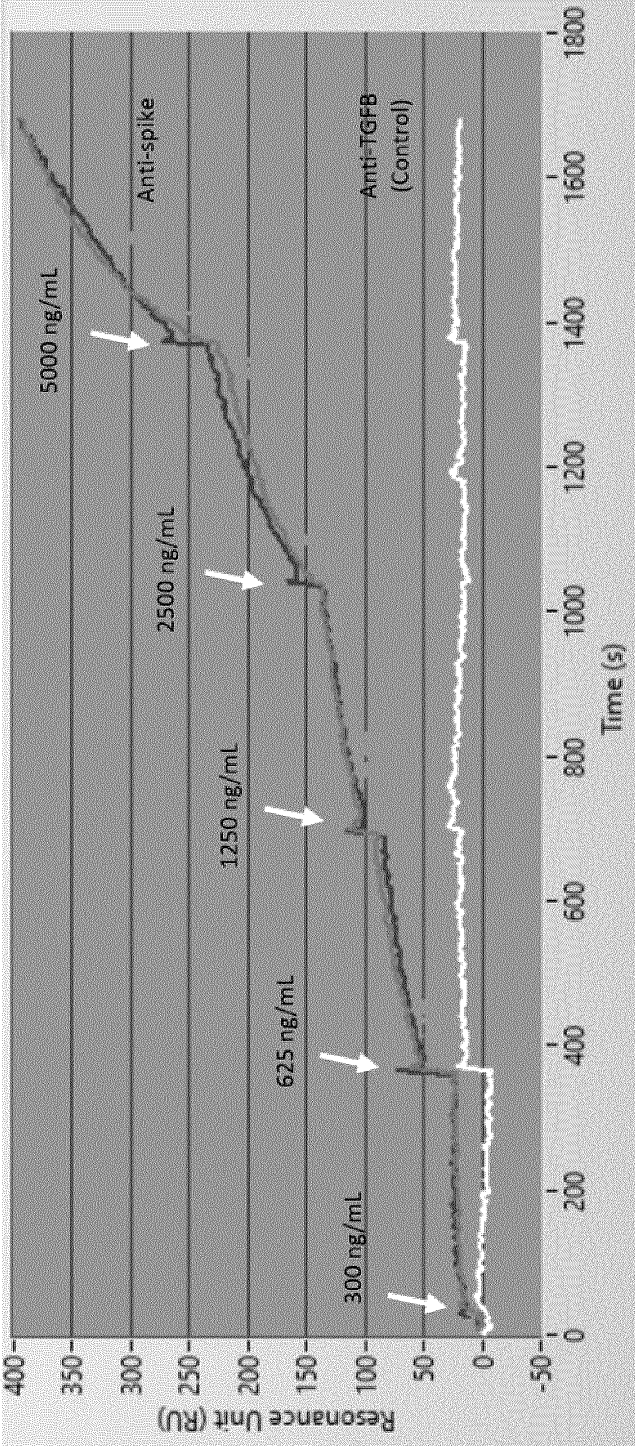


FIG. 13

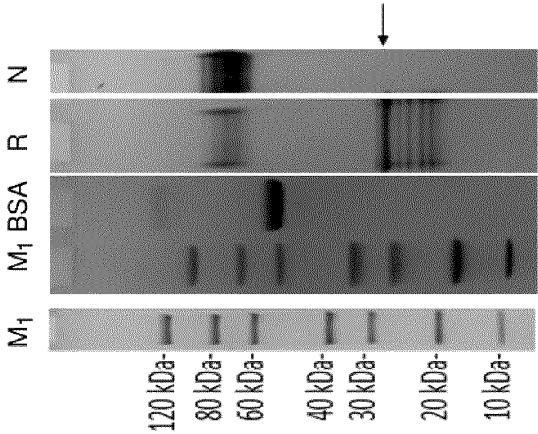
Purified streptavidin fusion proteins

A) EMT027

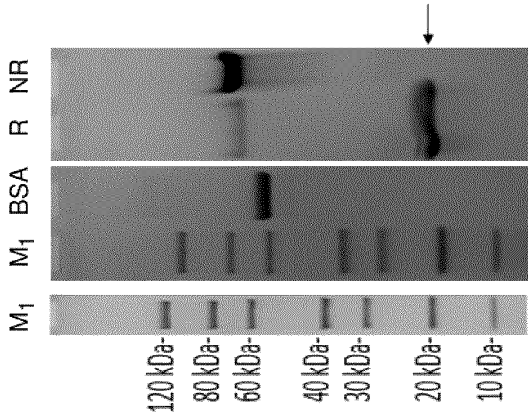
B) EMT028

SDS-PAGE:

SDS-PAGE:



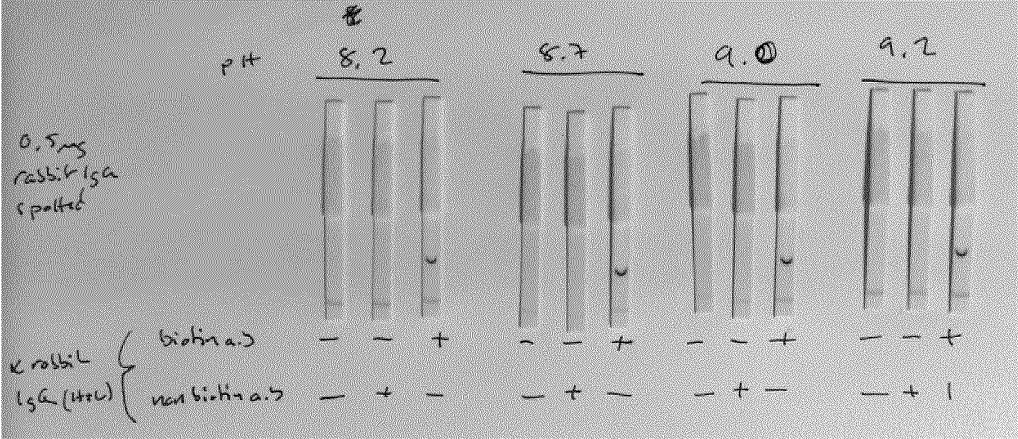
Lane M₁: Protein Marker, GenScript, Cat. No. M00516
BSA: 2.00 µg
R: Reducing condition
NR: Non-Reducing condition



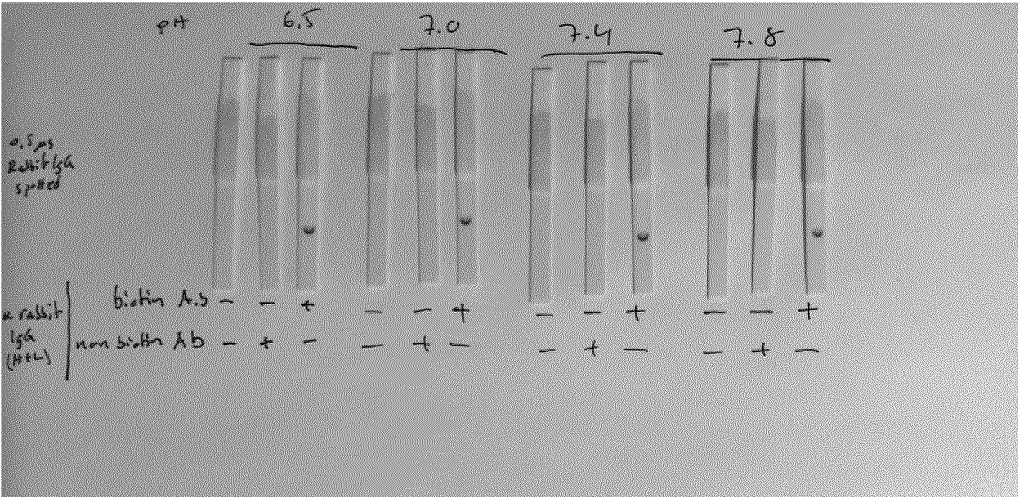
Lane M₁: Protein Marker, GenScript, Cat. No. M00516
BSA: 2.00 µg
R: Reducing
NR: Non-reducing

FIG. 14

EMT-027



EMT-028



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FIG. 15

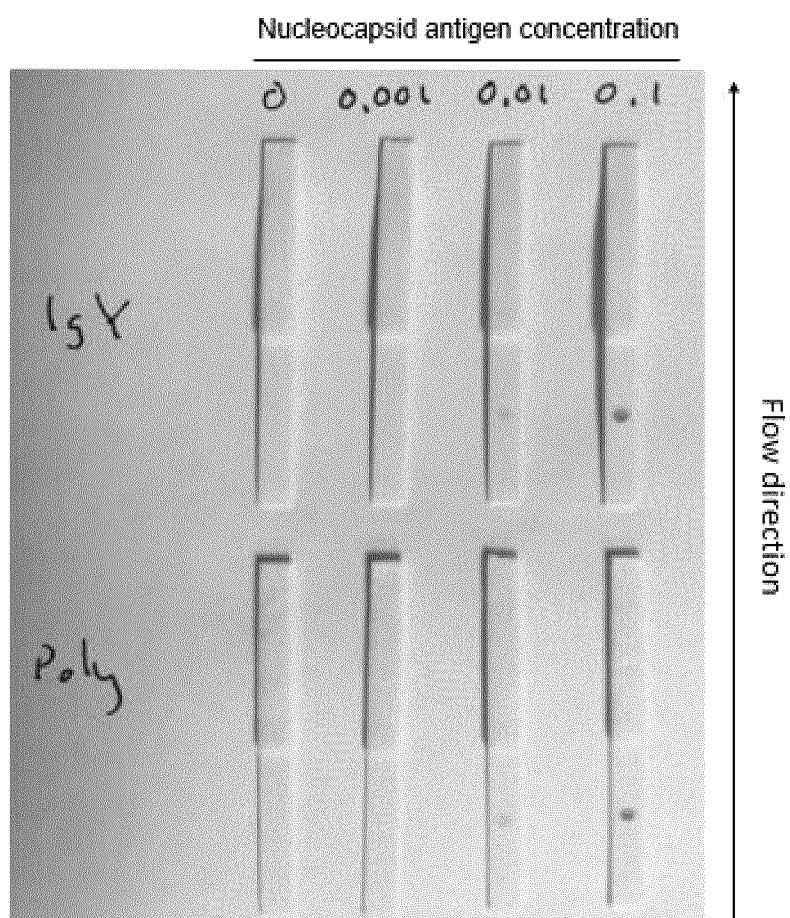
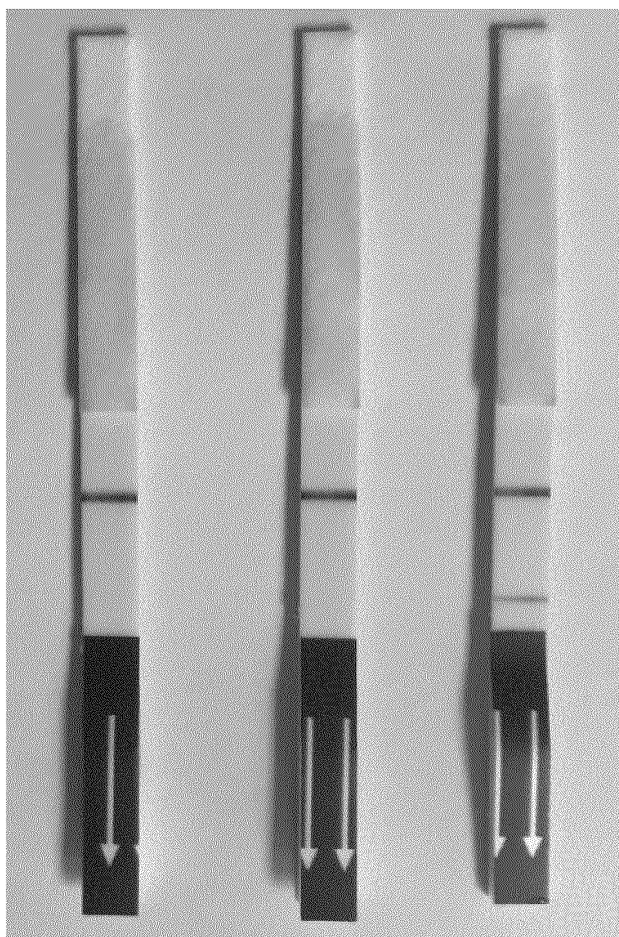


FIG. 16



From left to right: negative control, 1 ug/ml spike antigen, 1 ug/ml nucleocapsid antigen

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FIG. 17

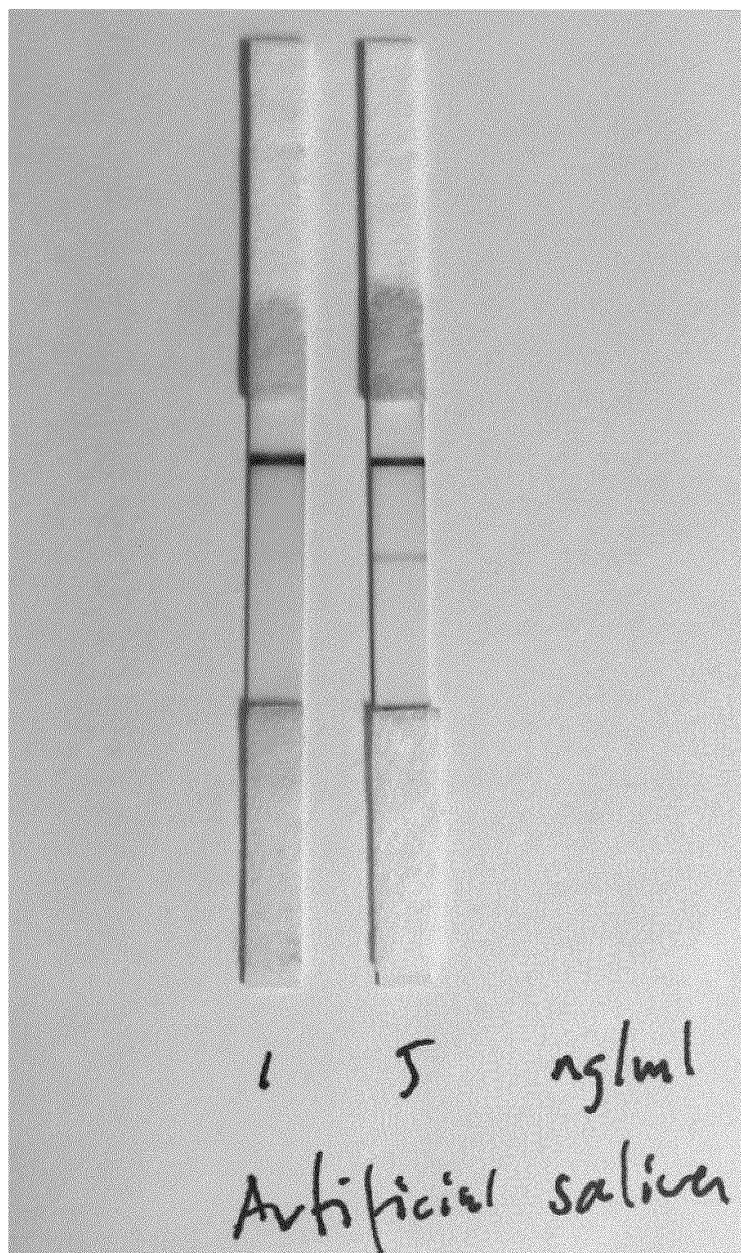


FIG. 18

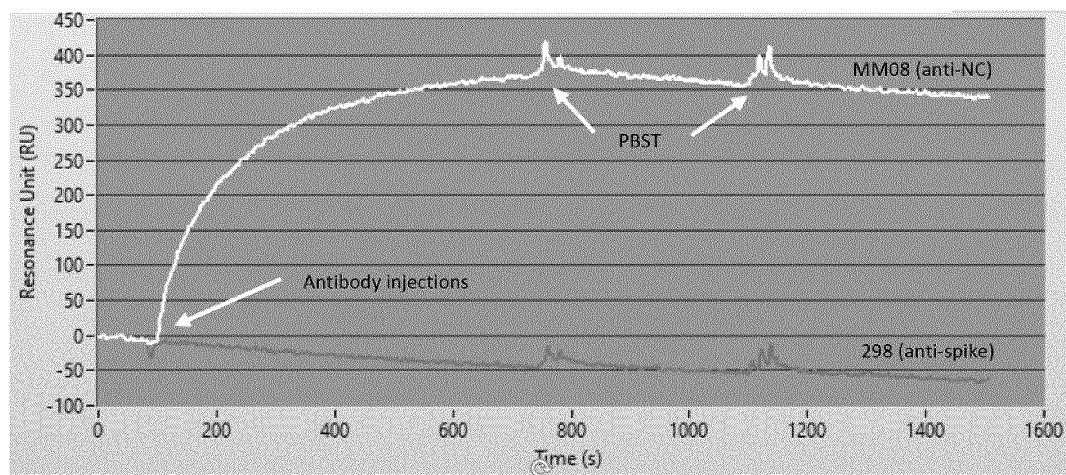


FIG. 19

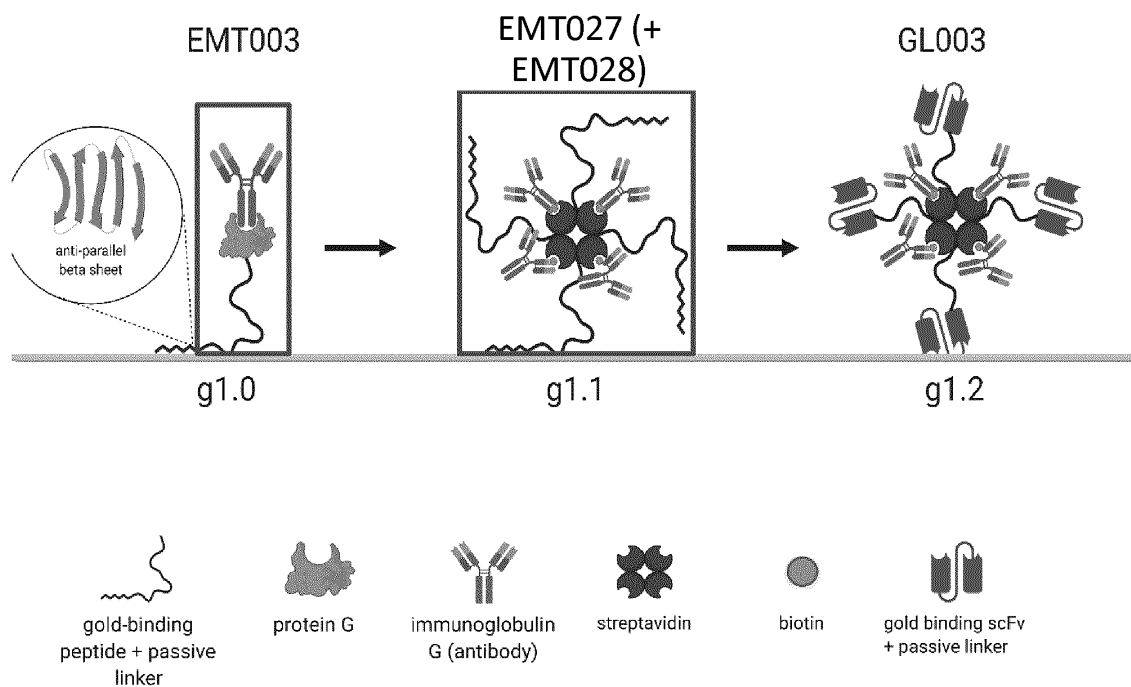


FIG. 20

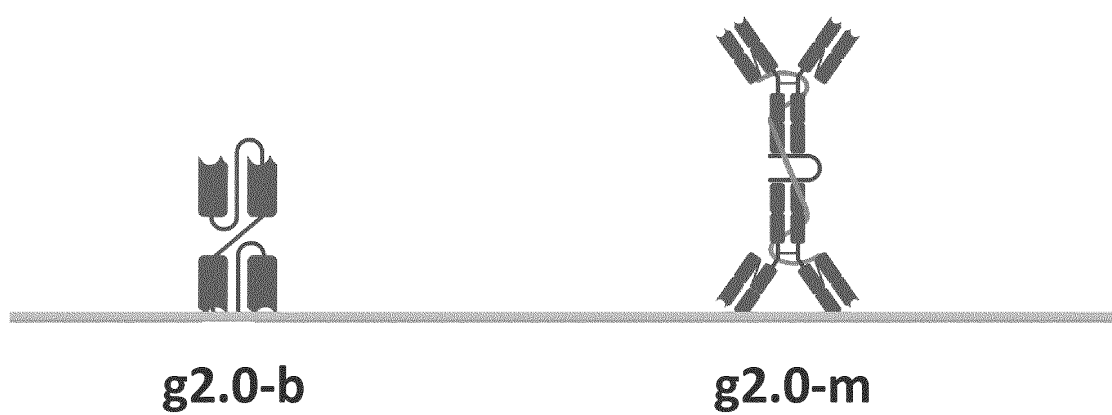


FIG. 21

FIG. 21A

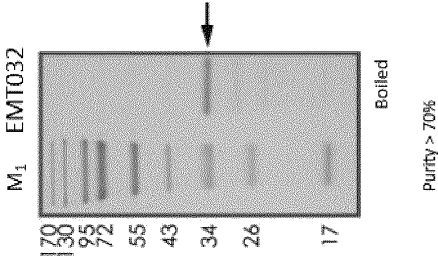


FIG. 21B

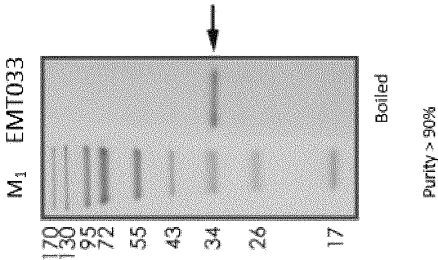


FIG. 21C

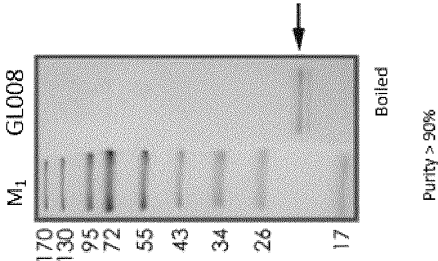


FIG. 21D

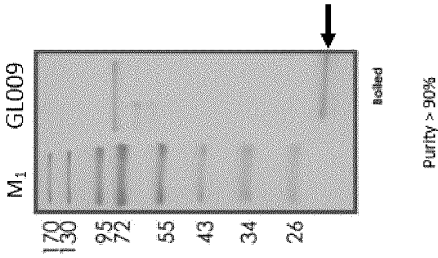


FIG. 21E

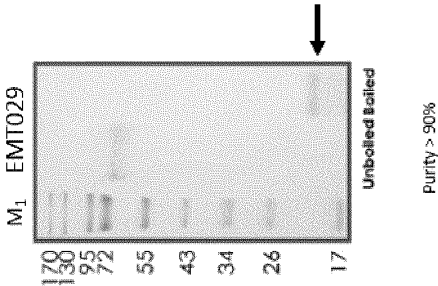


FIG. 22

FIG. 22A
EMT032

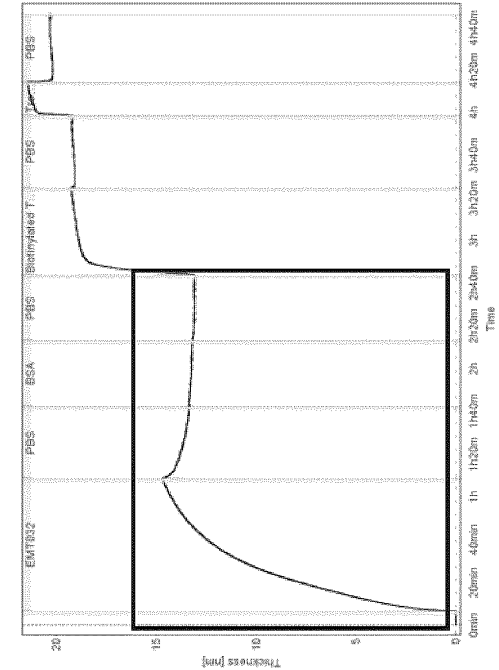


FIG. 22B
EMT033

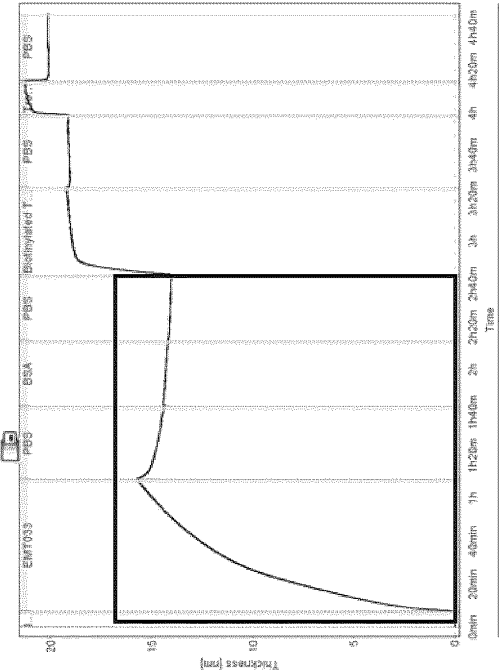


FIG. 22D

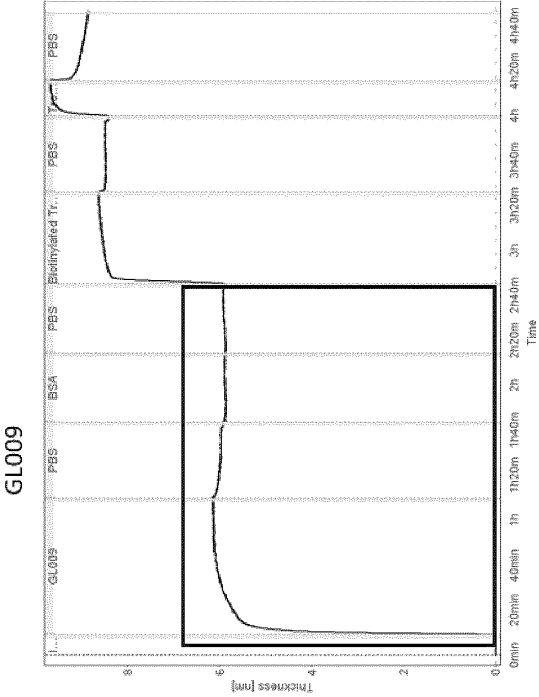


FIG. 22C

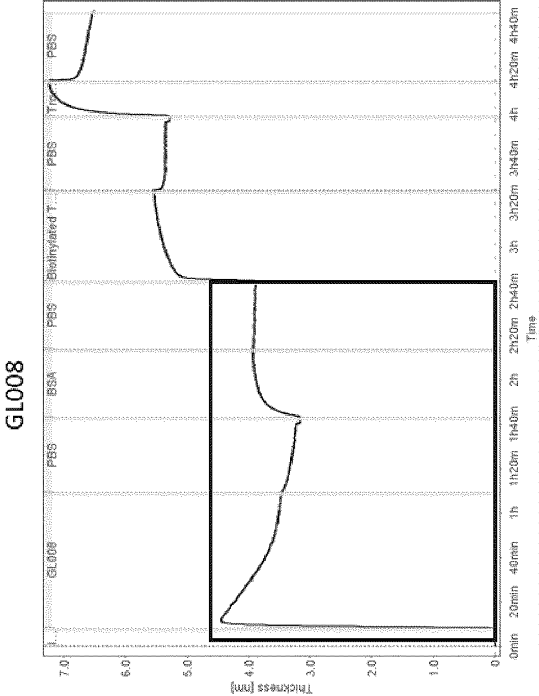


FIG. 22E

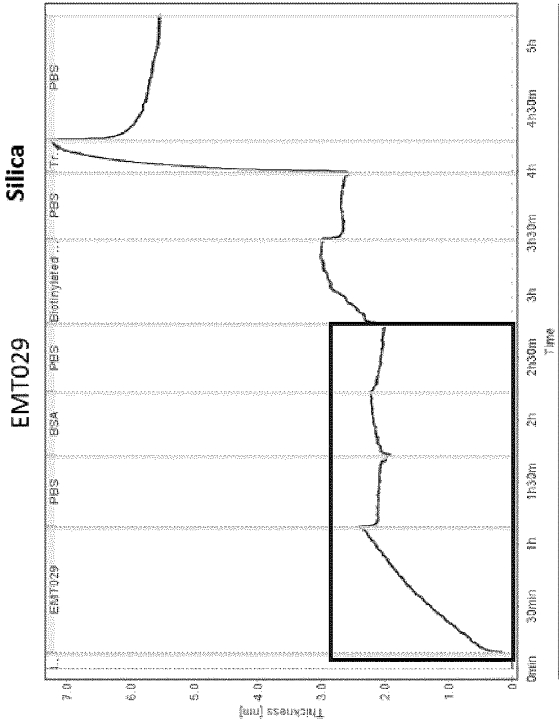


FIG. 24

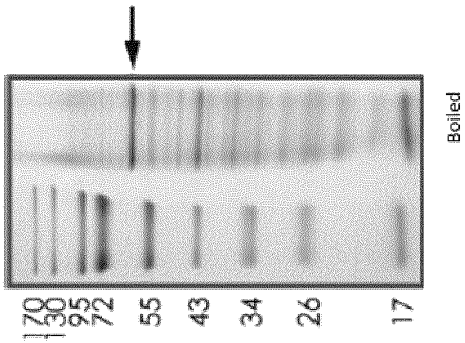


FIG. 25B

GL007 + Spike Antigen (control)

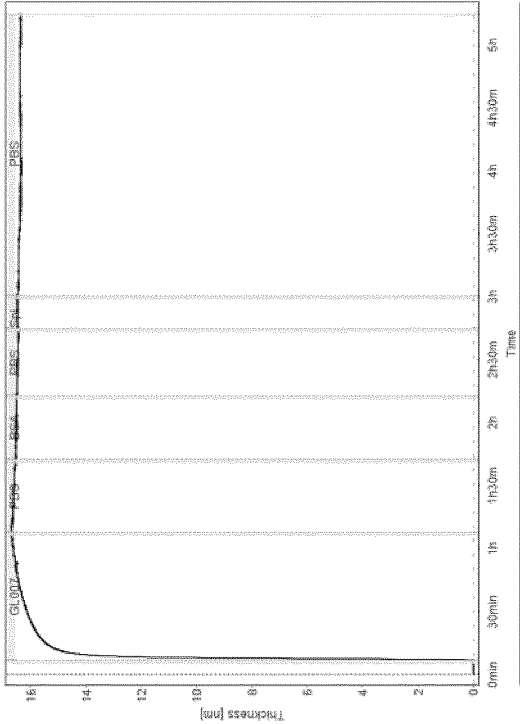


FIG. 25A

GL007 + Troponin Antigen

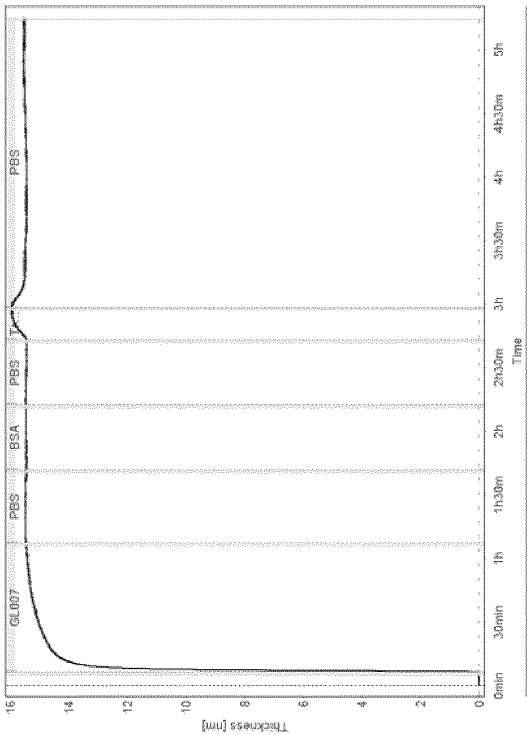


FIG. 26

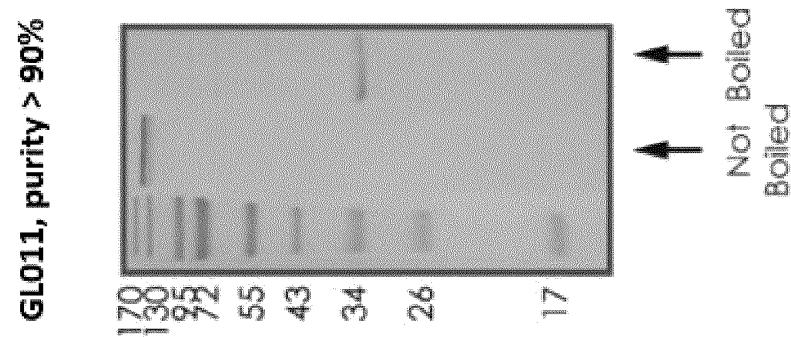


FIG. 27

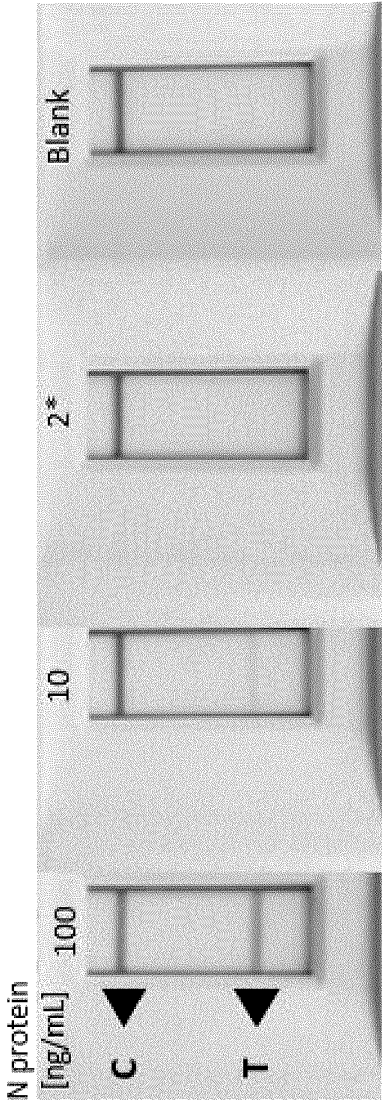


FIG. 28

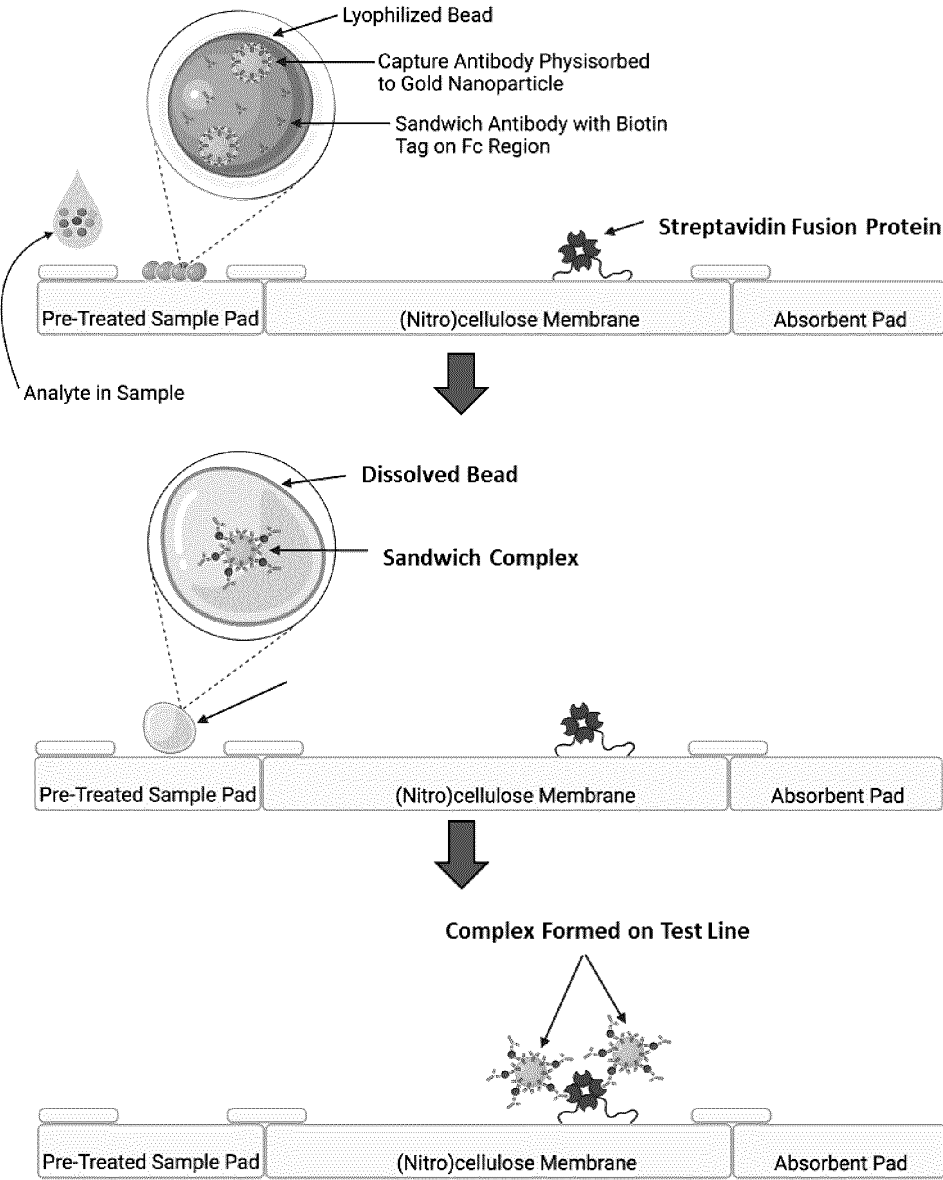


FIG. 29

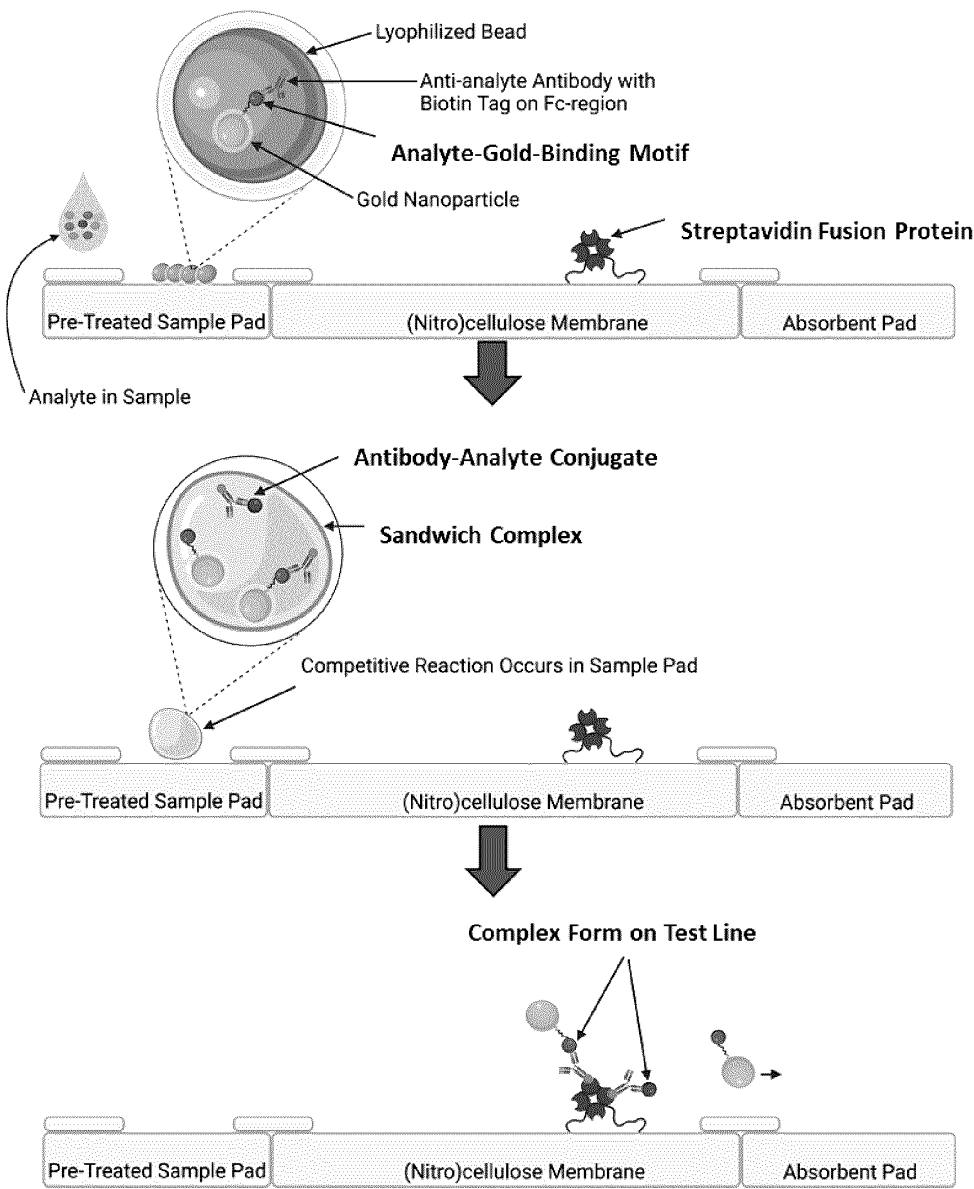


FIG. 30A

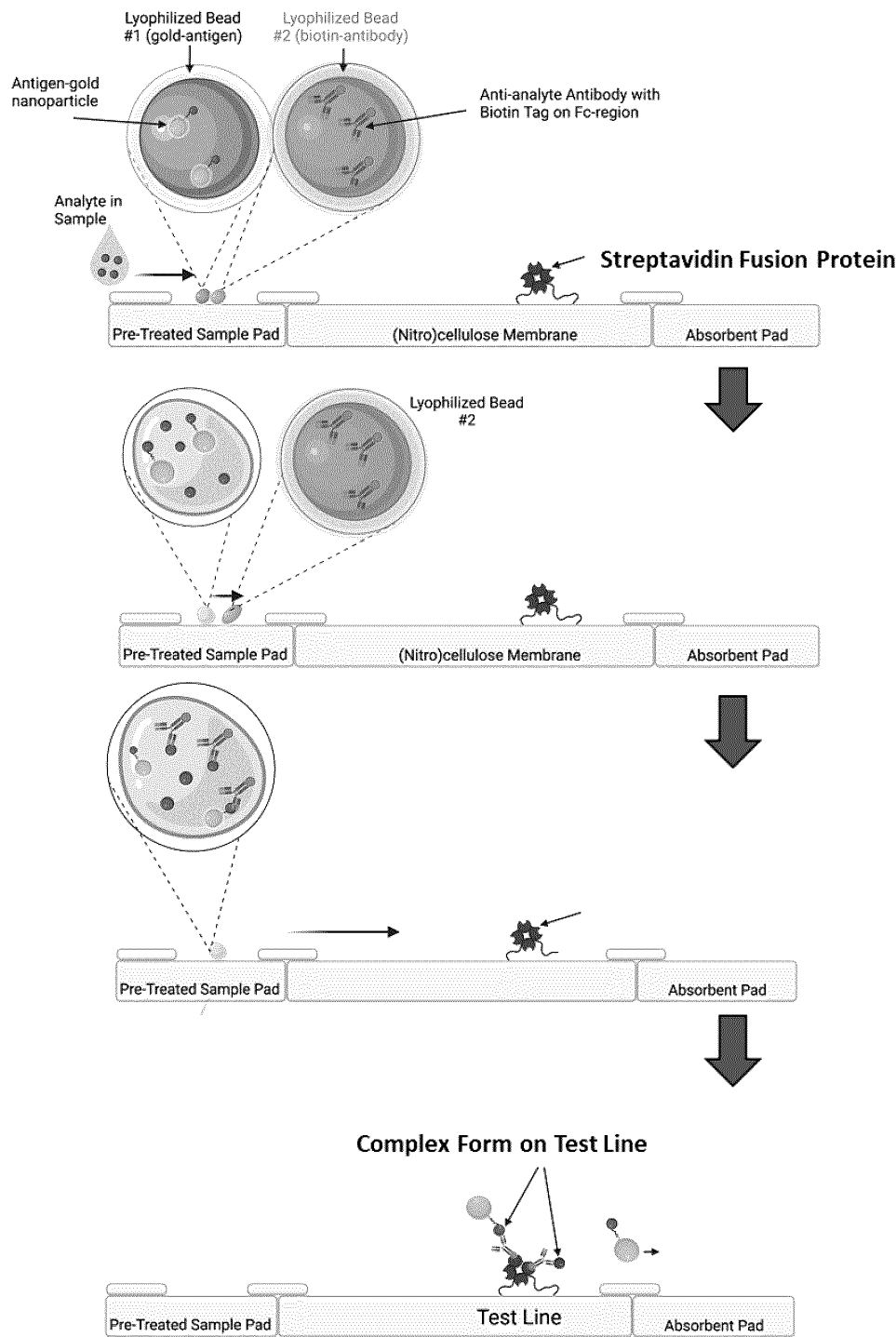


FIG. 30B

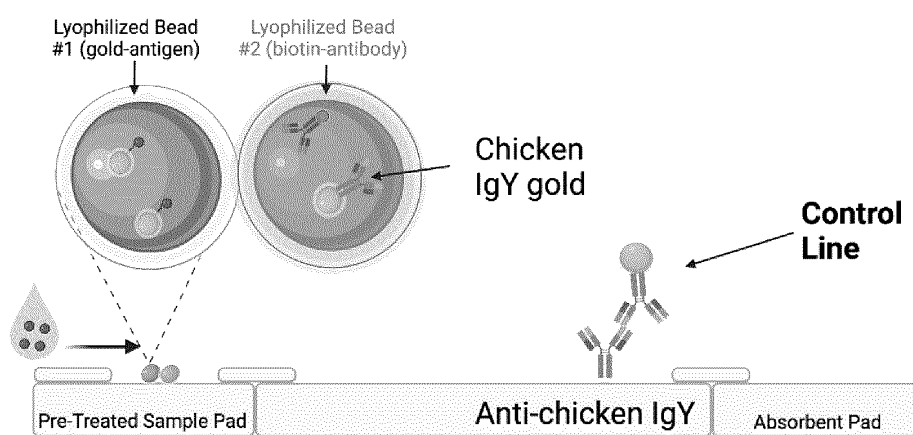
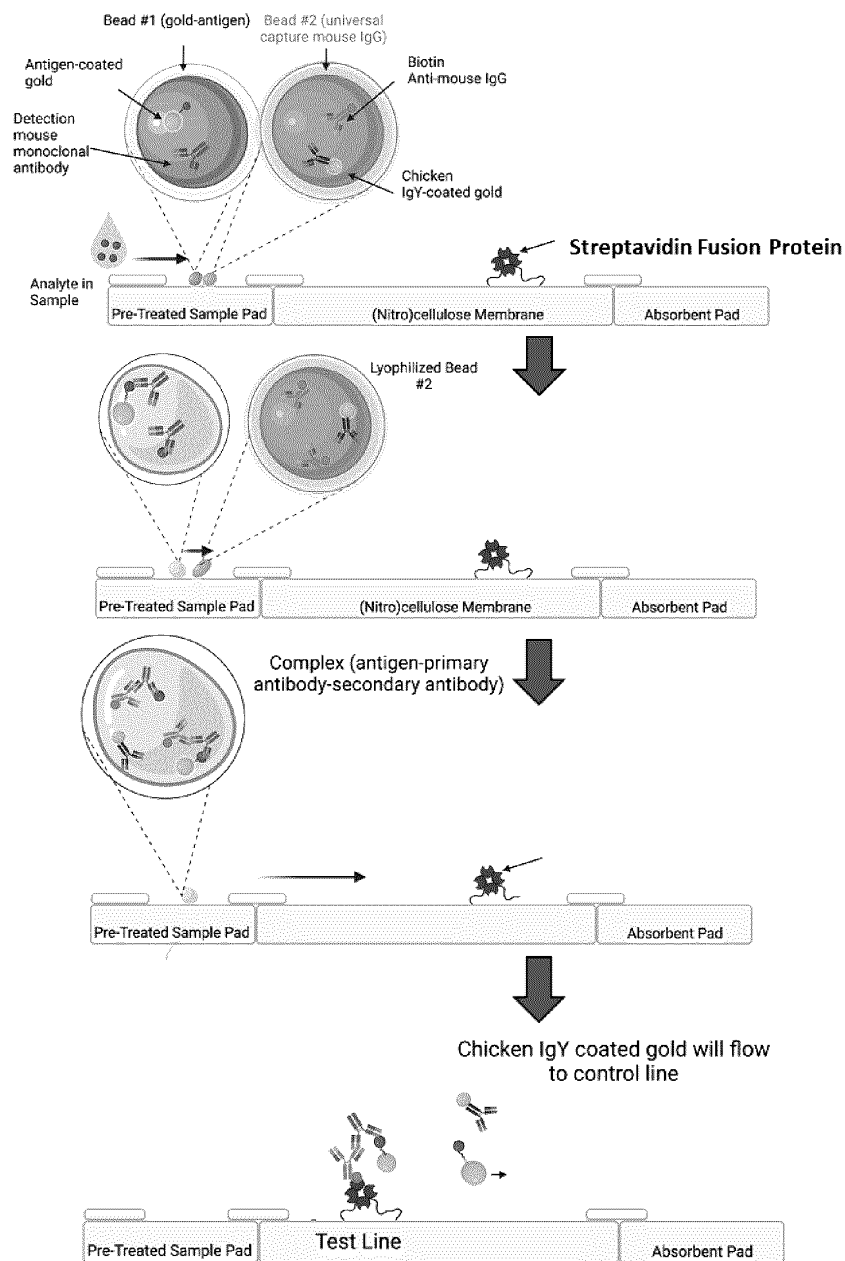


FIG. 31A



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FIG. 31B

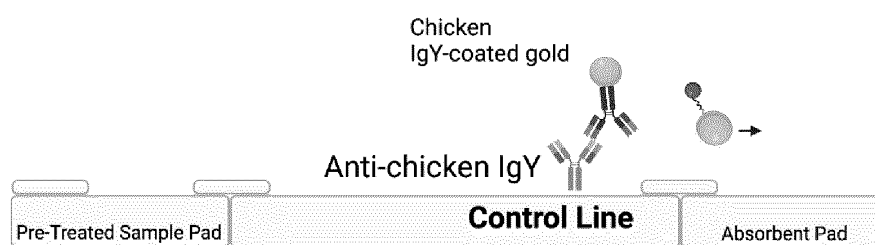


FIG. 32A

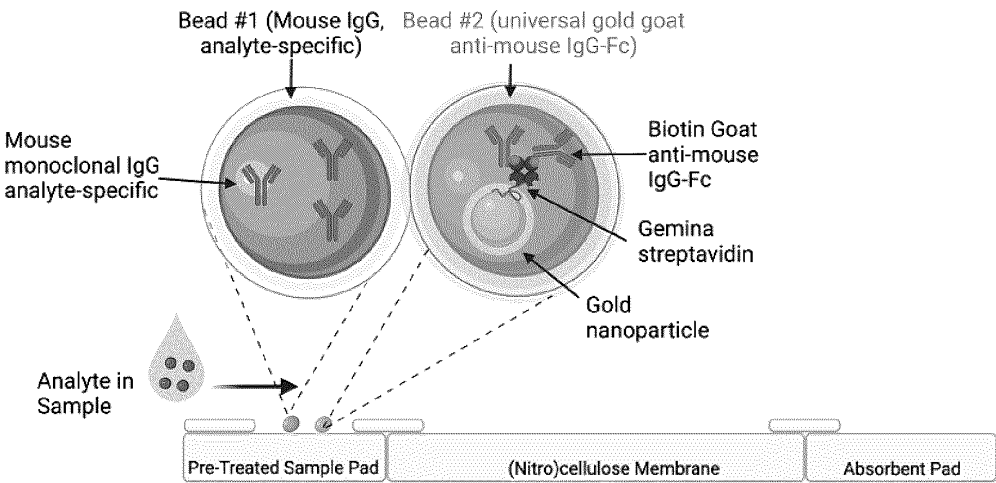


FIG. 32B

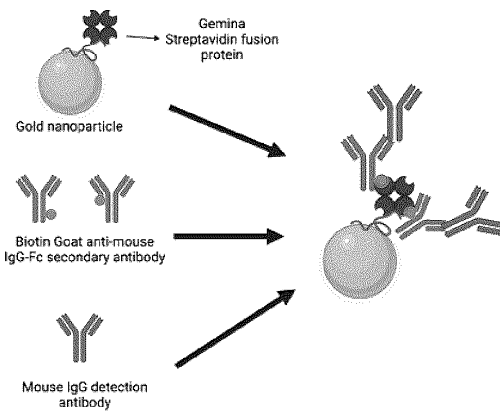


FIG. 32C

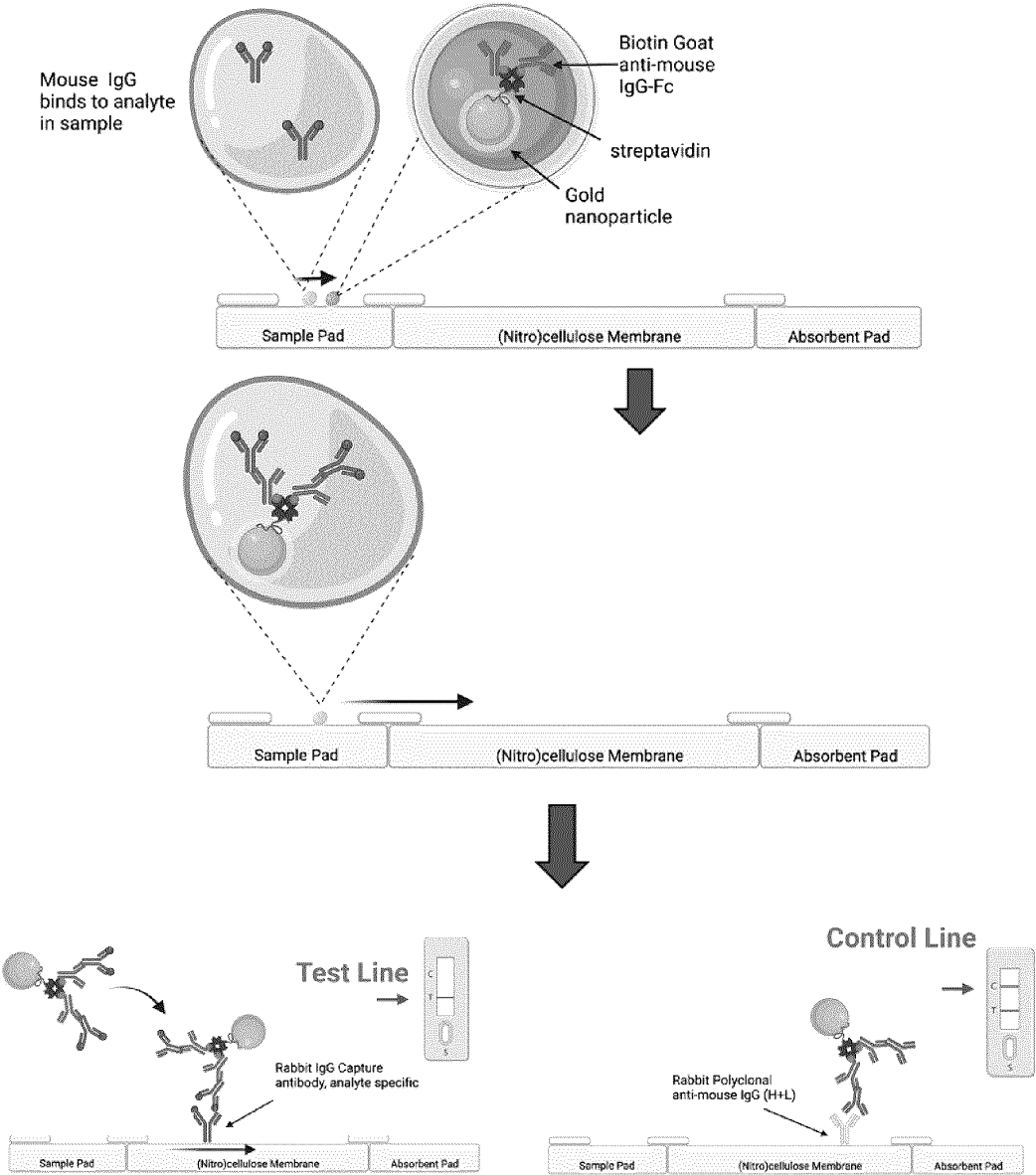


FIG. 33

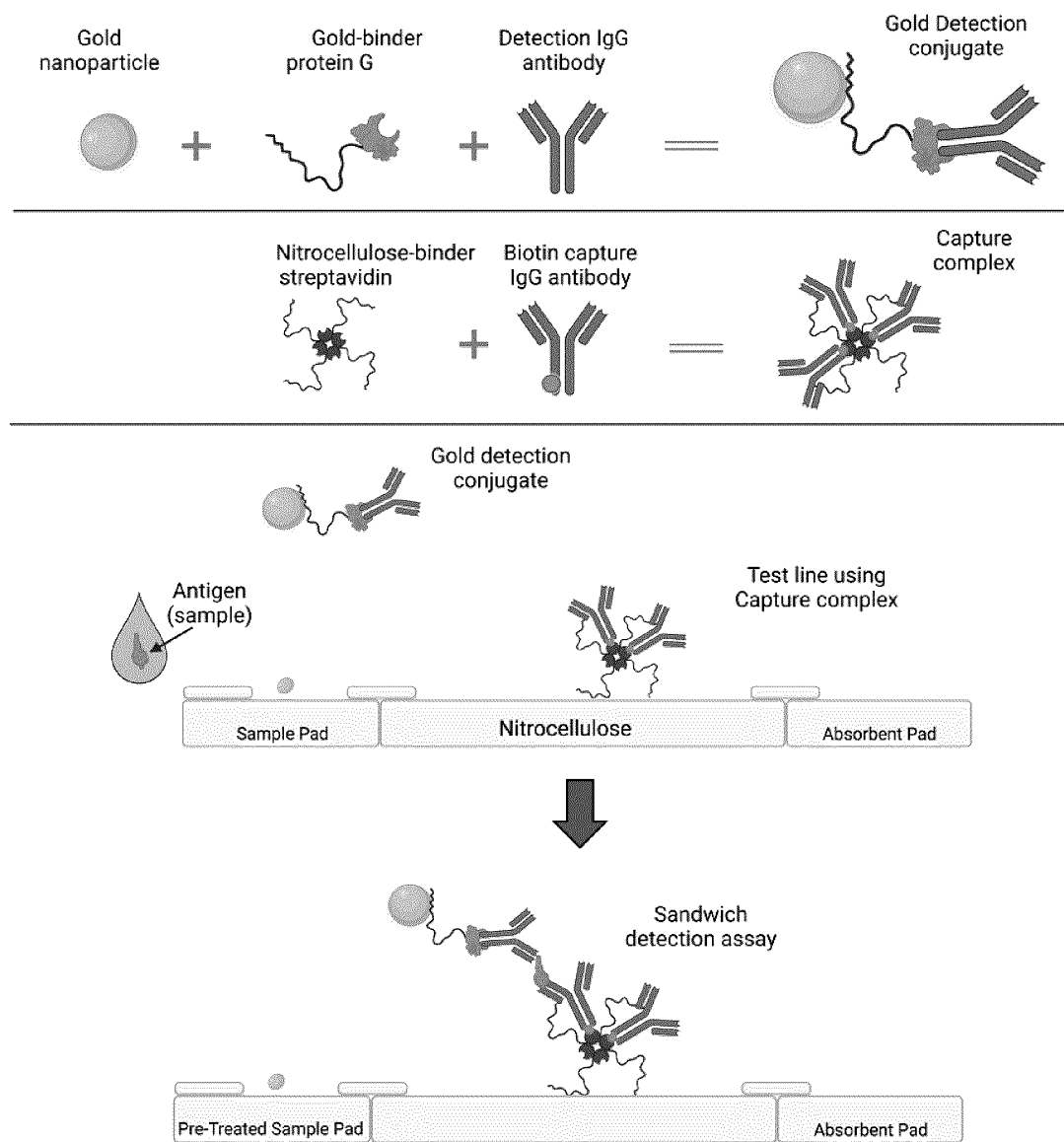


FIG. 34

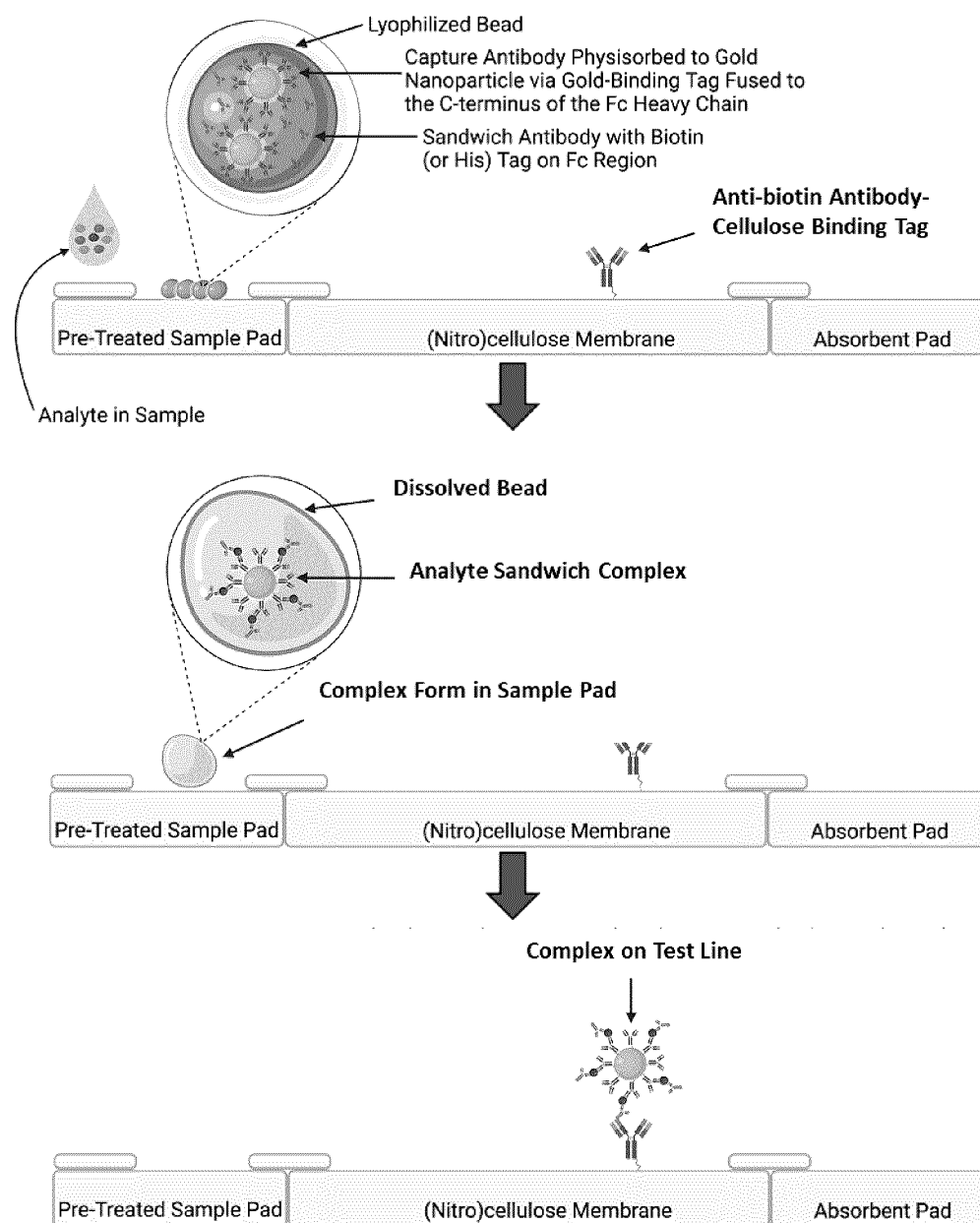


FIG. 35

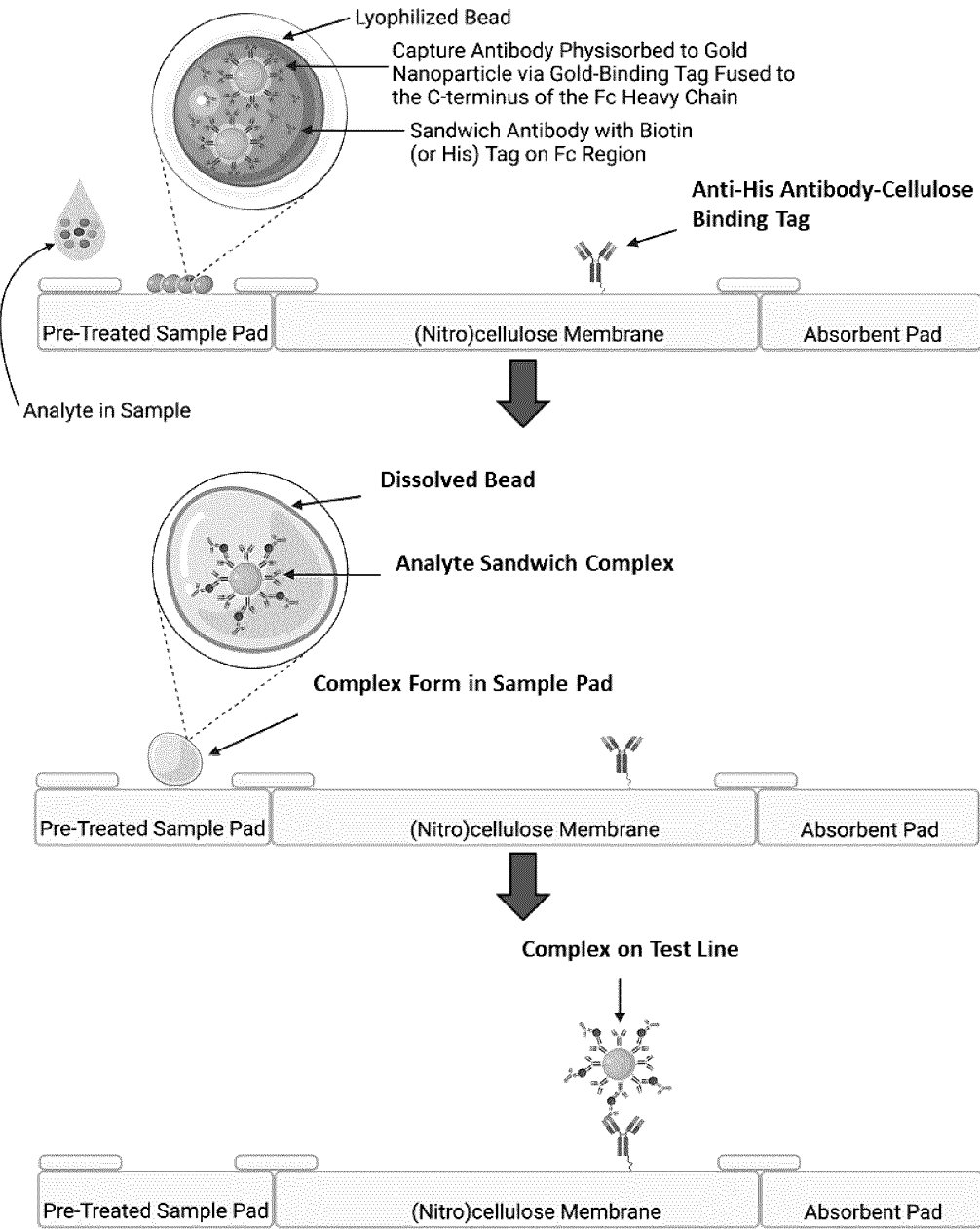


FIG. 36

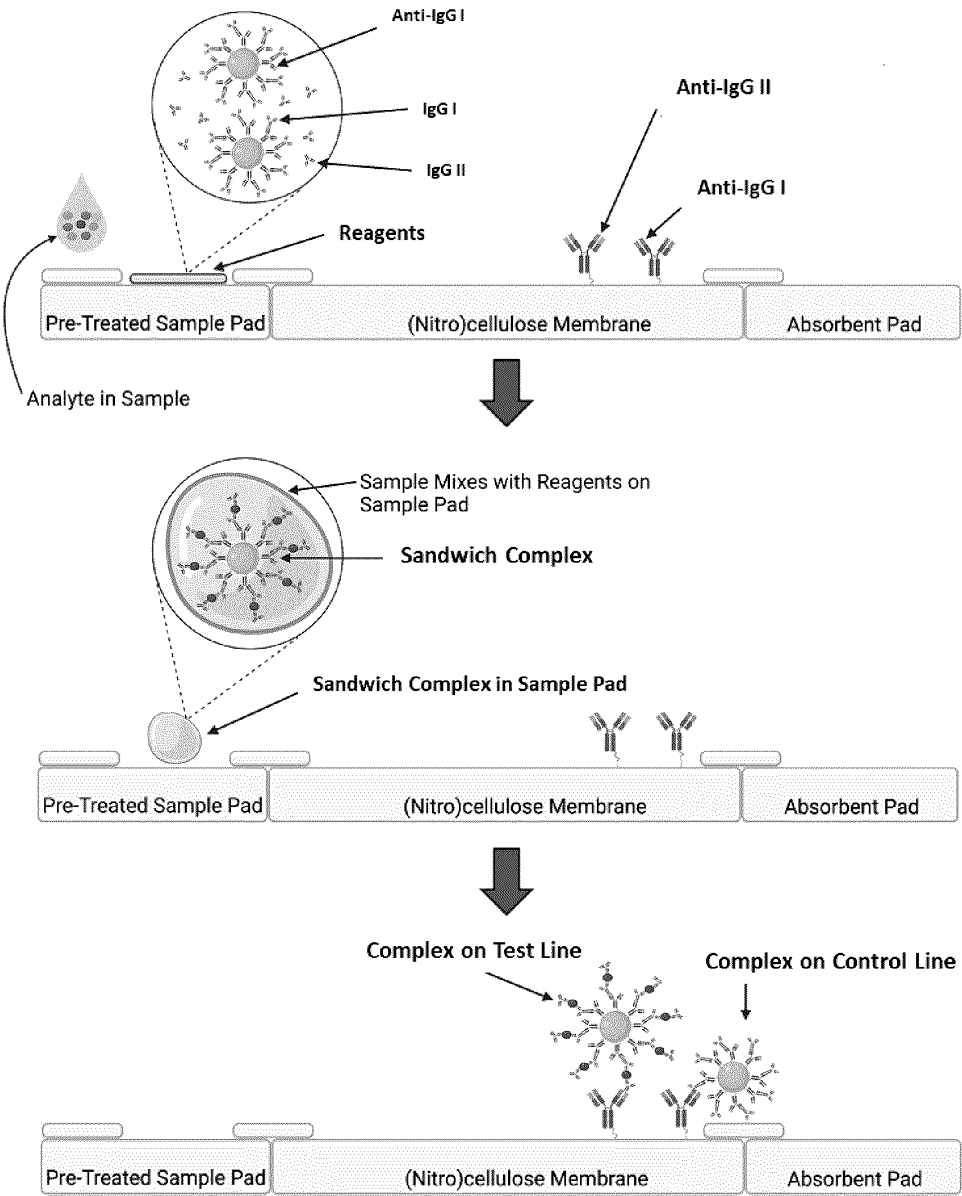


FIG. 37

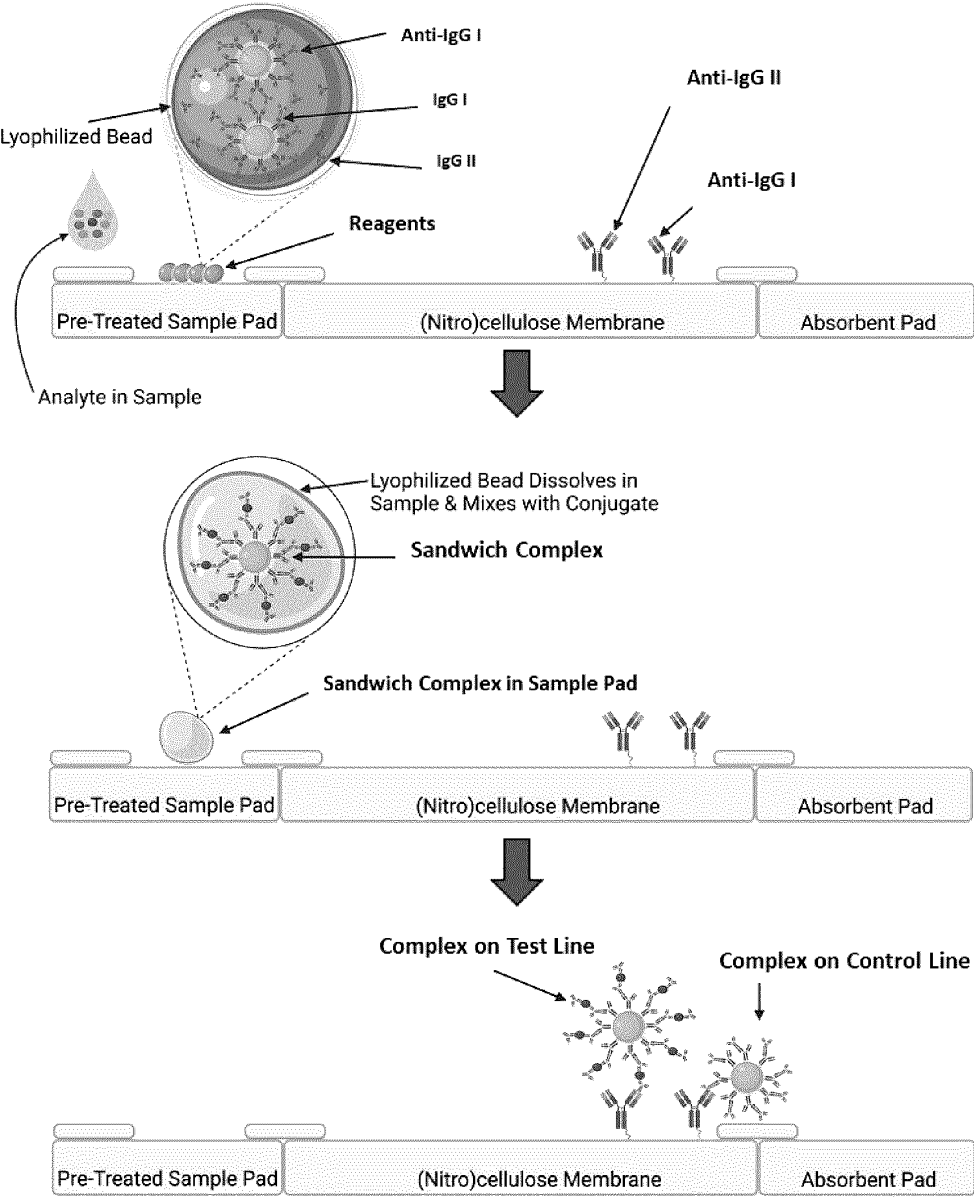
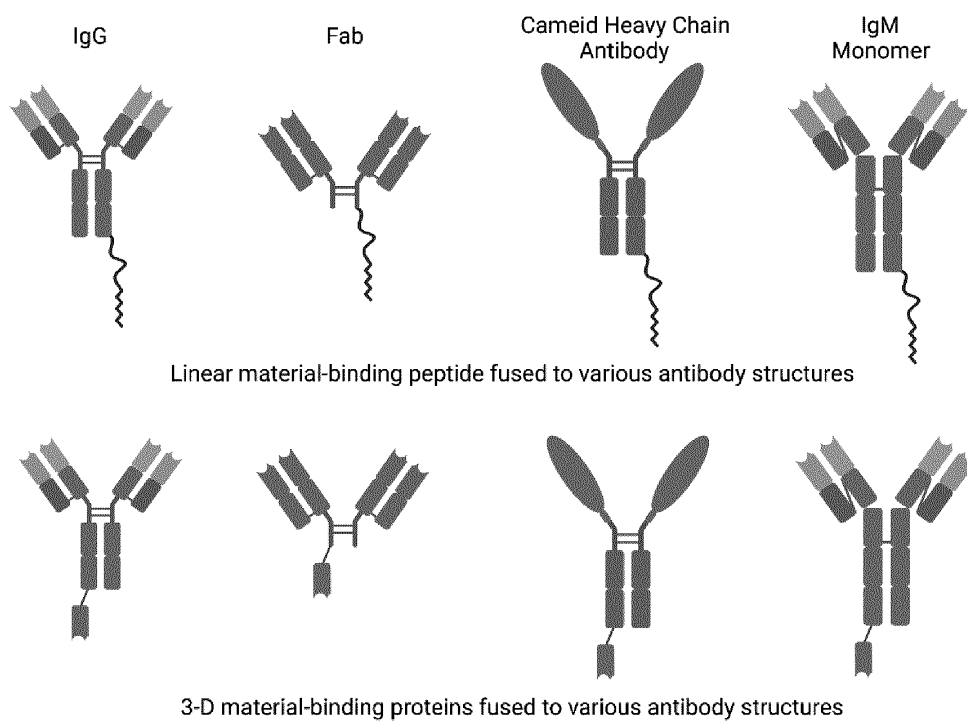


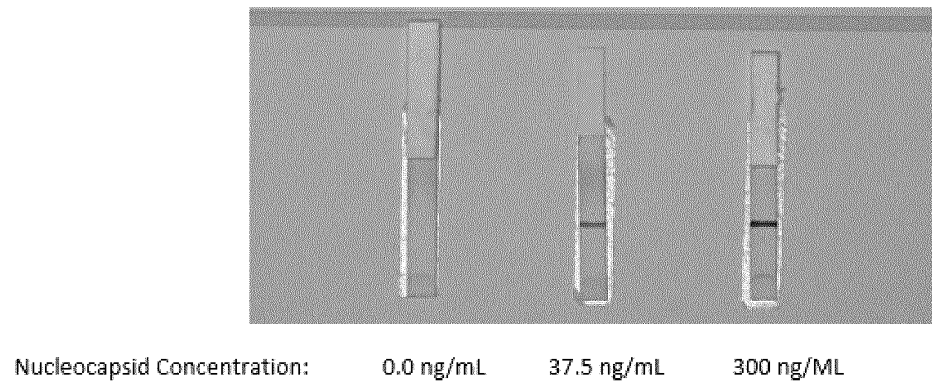
FIG. 38

Integrated Probe Design - Direct Antibody Modification



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FIG. 39



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FIG. 40

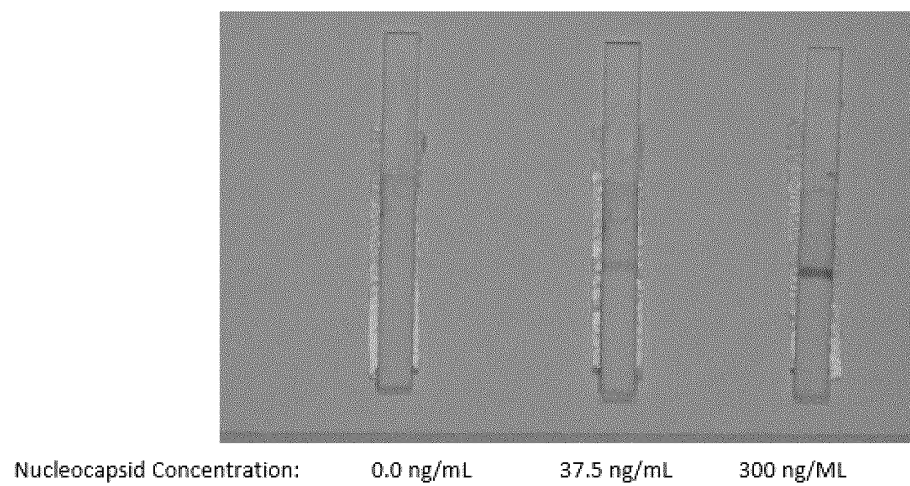


FIG. 41

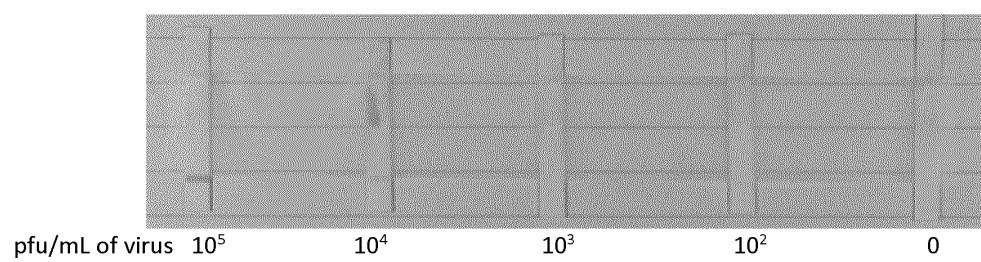


FIG. 42

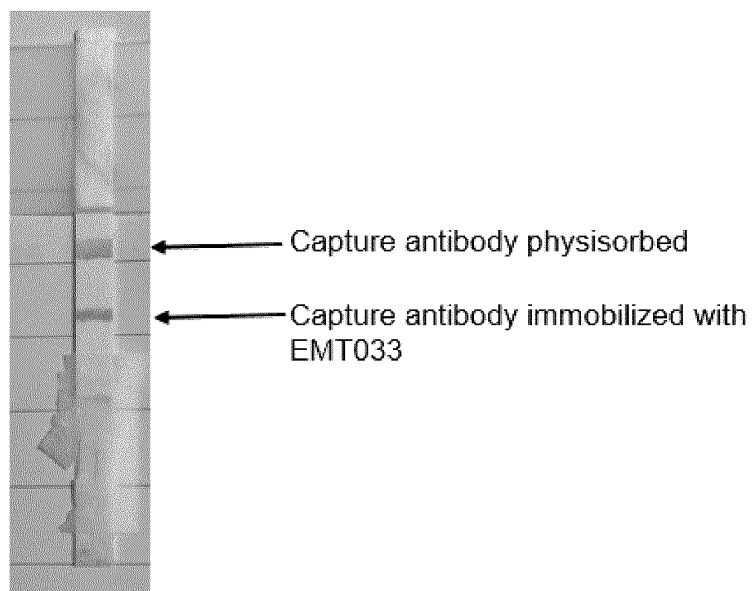
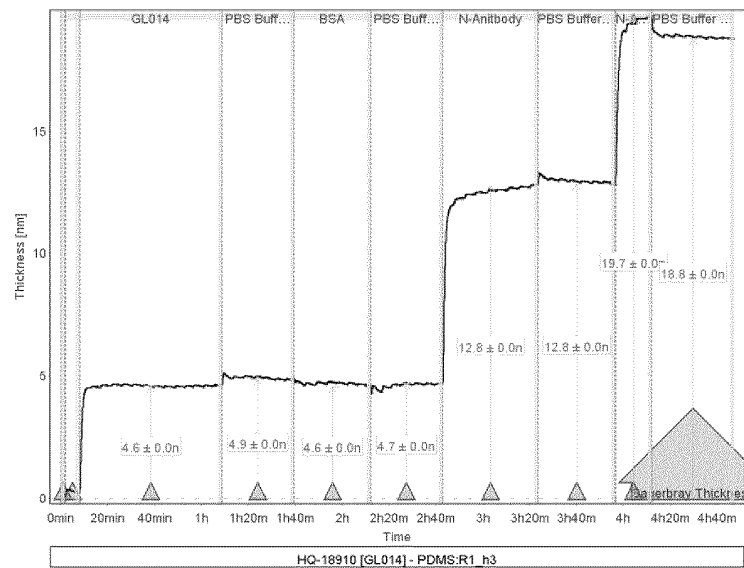
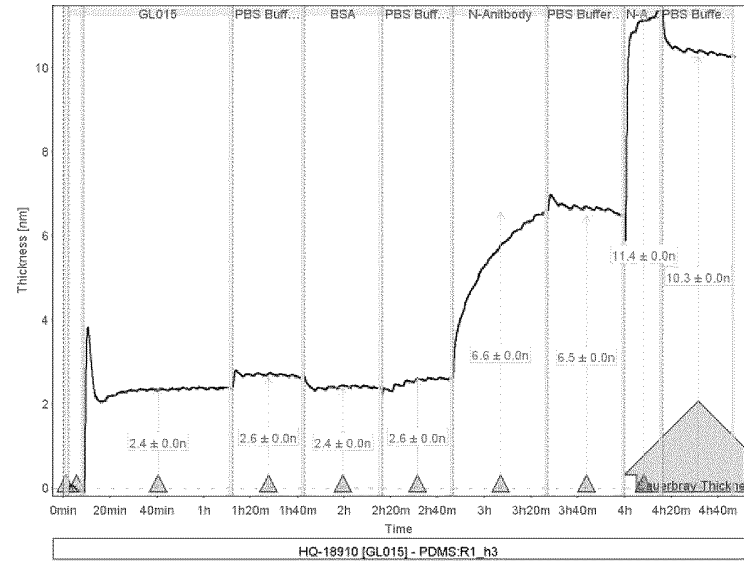


FIG. 43A



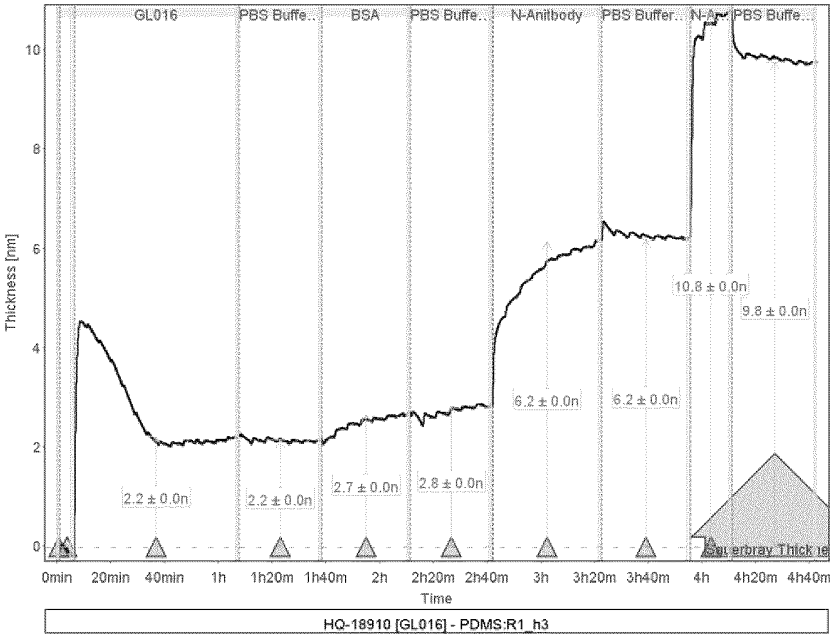
QCM-D with GLO14 Fusion

FIG. 43B



QCM-D with GLO15 Fusion

FIG. 43C



QCM-D with GL016 Fusion