

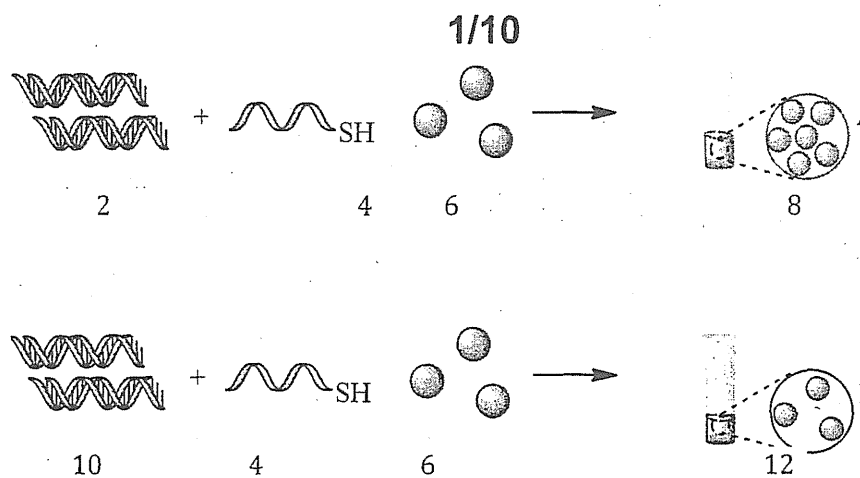


Figure 1

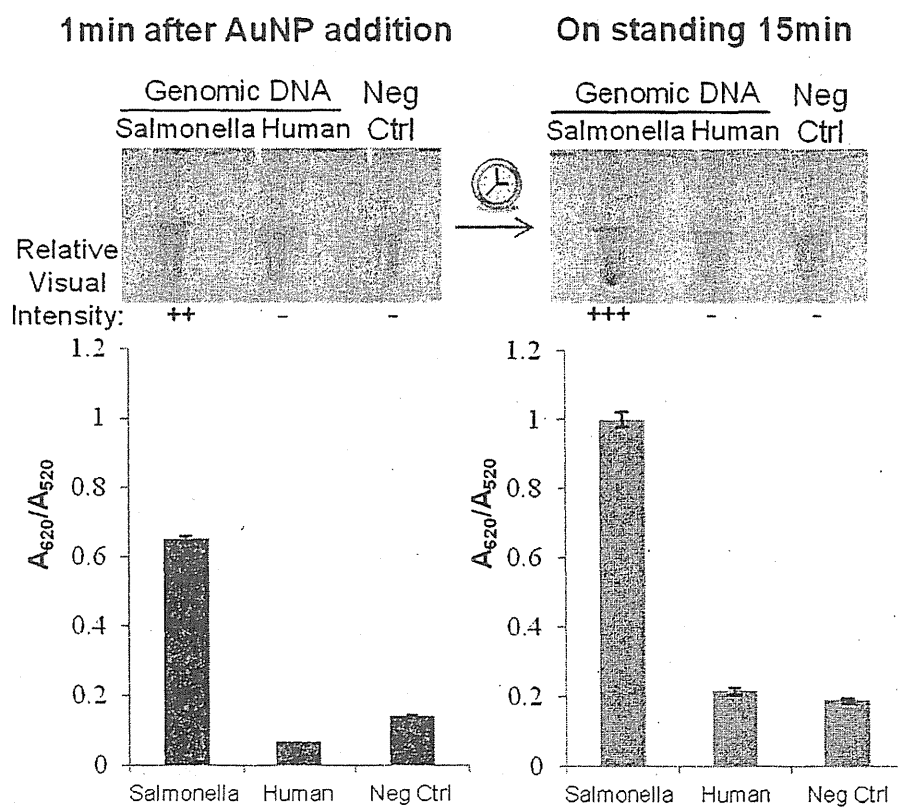
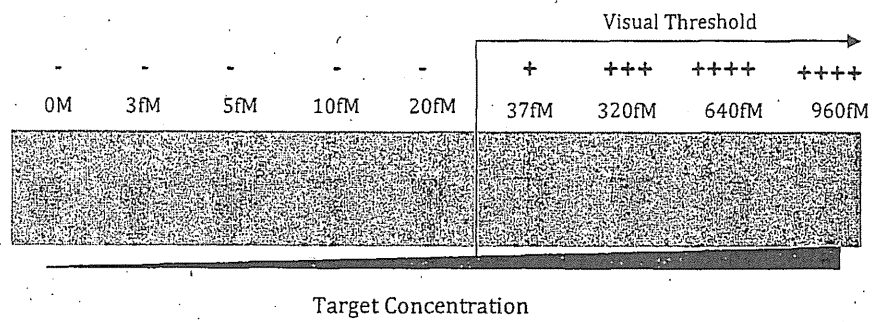


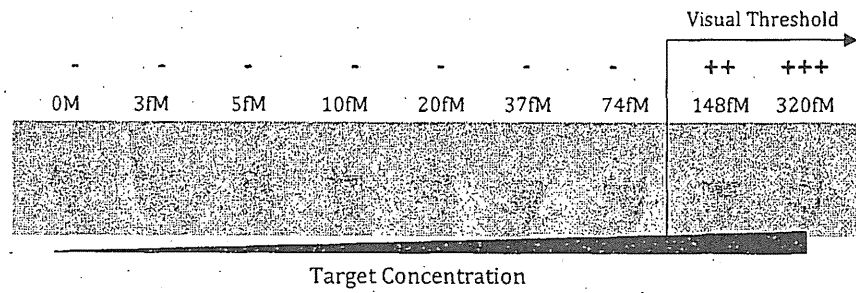
Figure 2

Figure 3

A



B.



C.

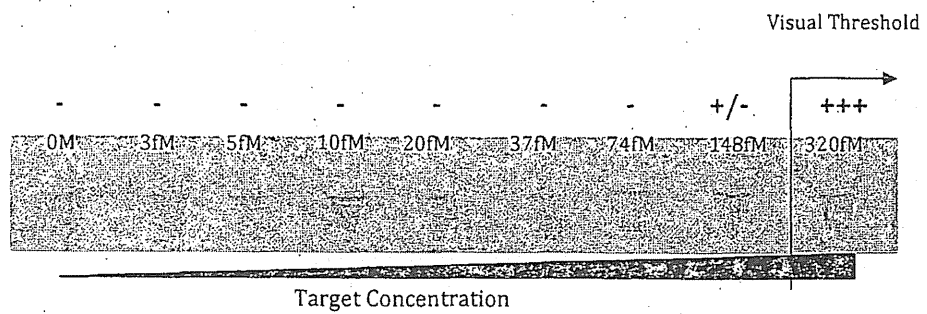
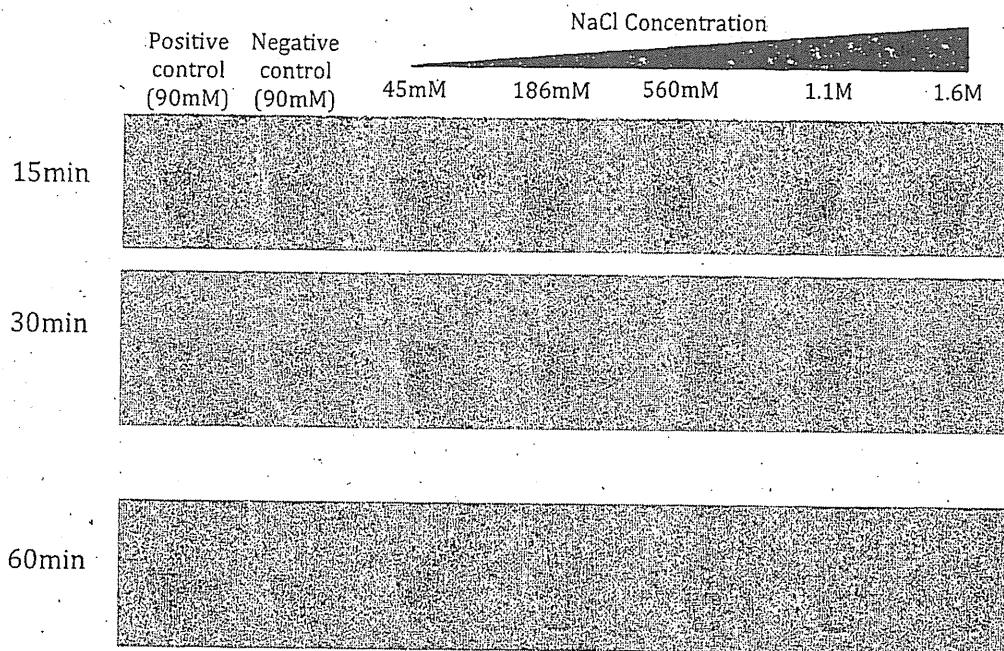
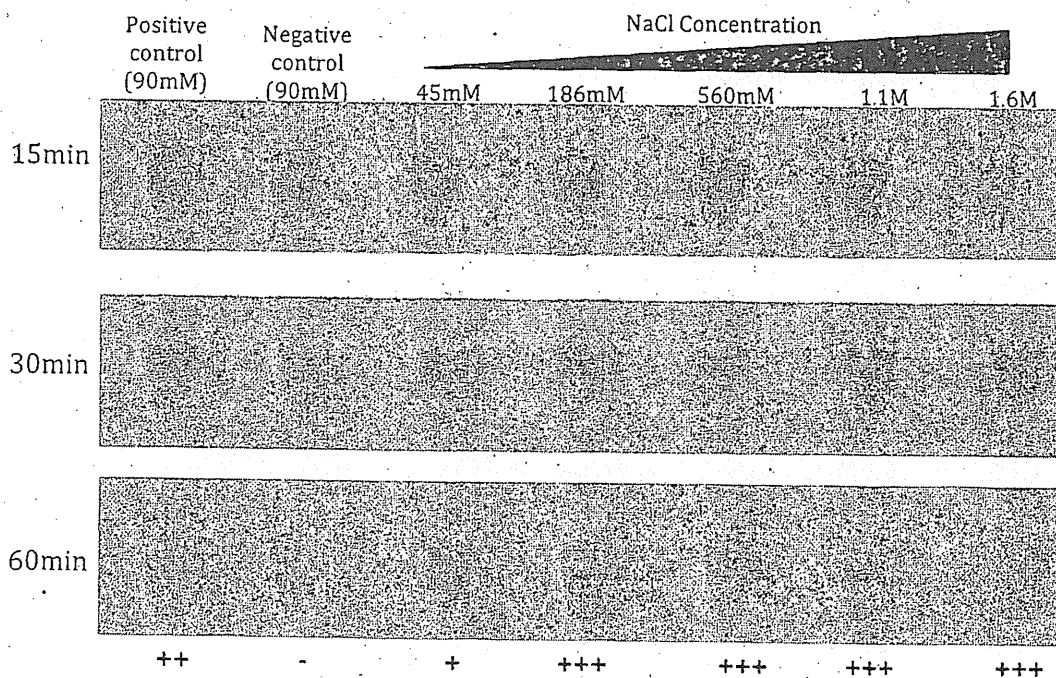


Figure 4

A. R probe	+	+	-	-	-	-	-
L probe	+	+	+	+	+	+	+
Target	+	-	+	+	+	+	+



B. R probe	++	-	++	+++	+++	+++	+++
L probe	+	+	+	+	+	+	+
Target	+	-	+	+	+	+	+



C.

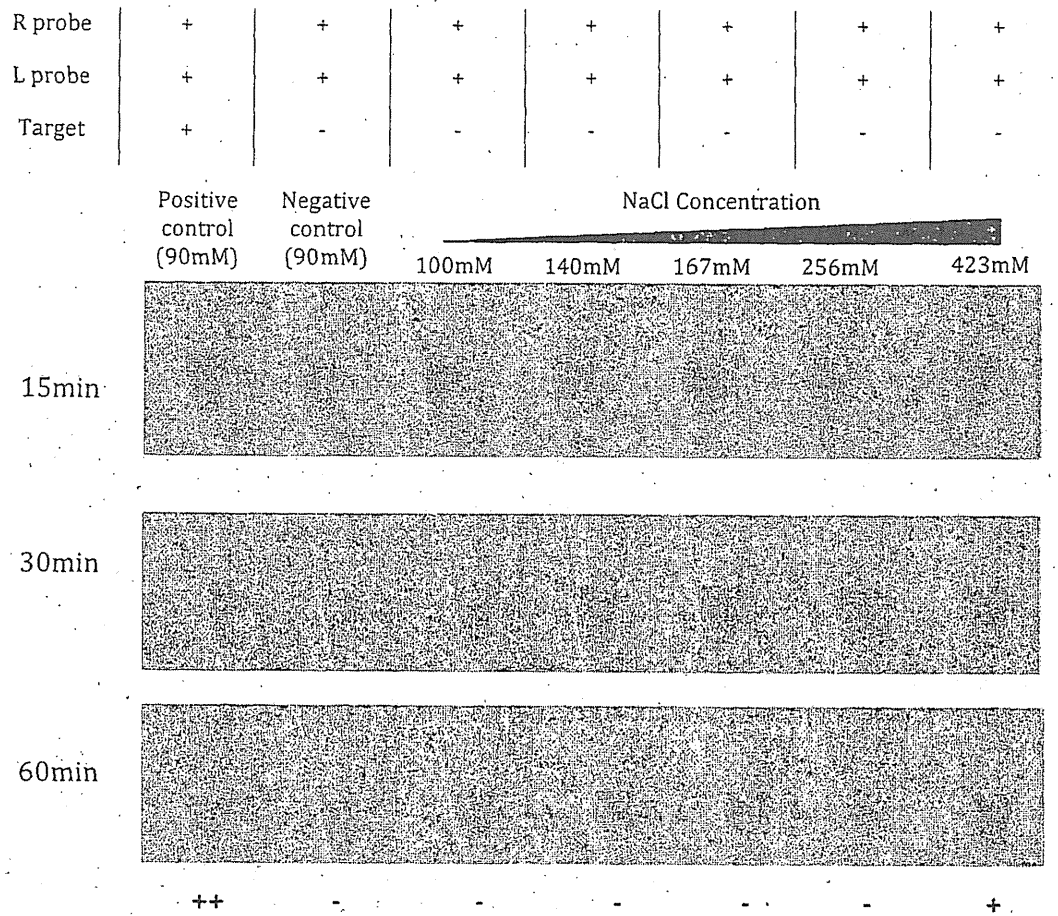
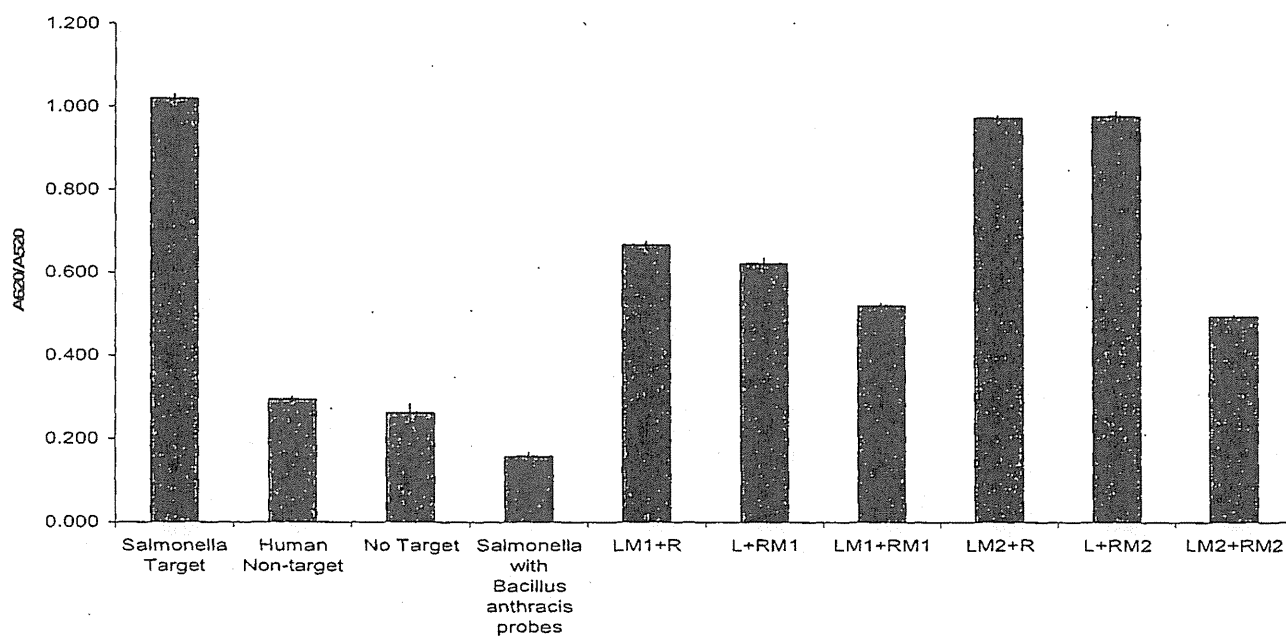
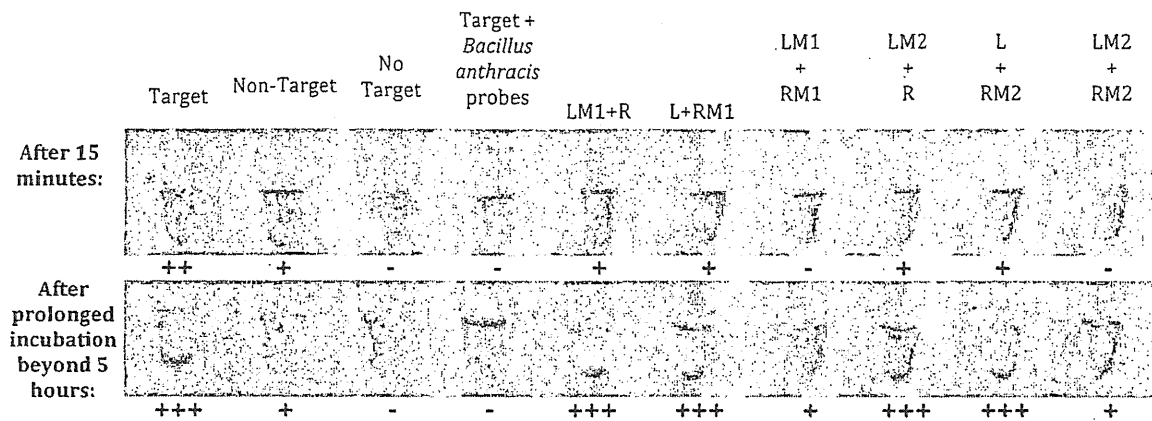


Figure 4.

A

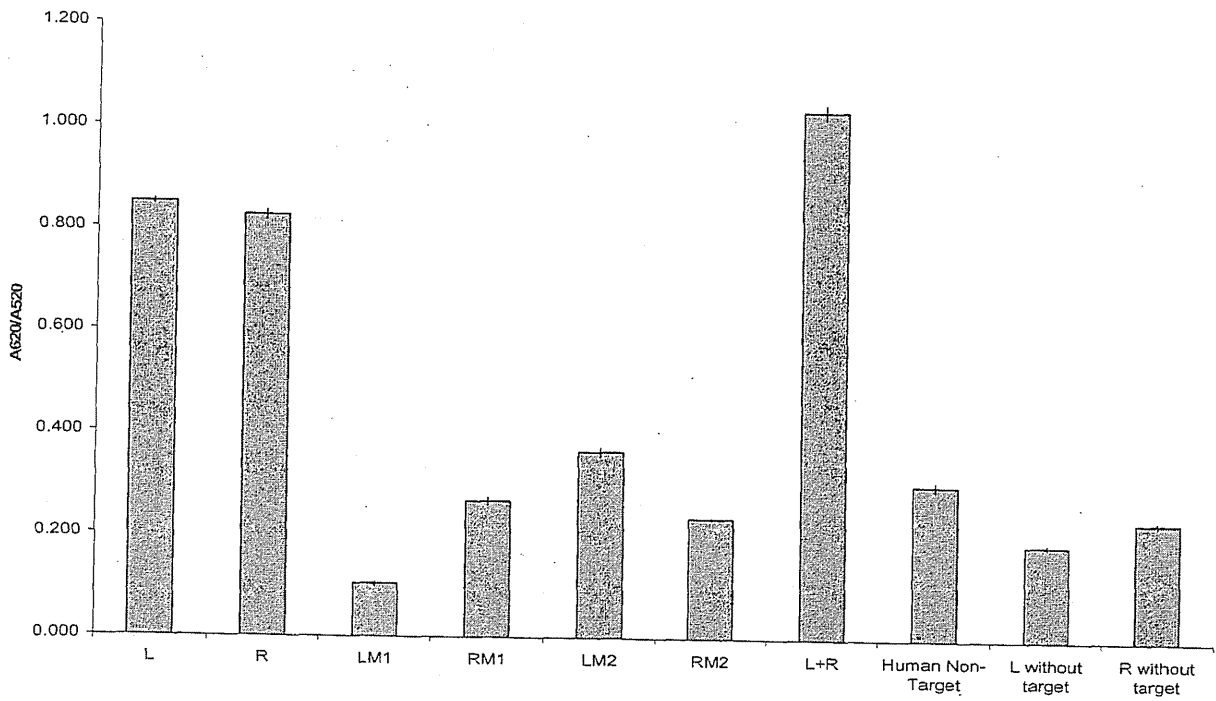
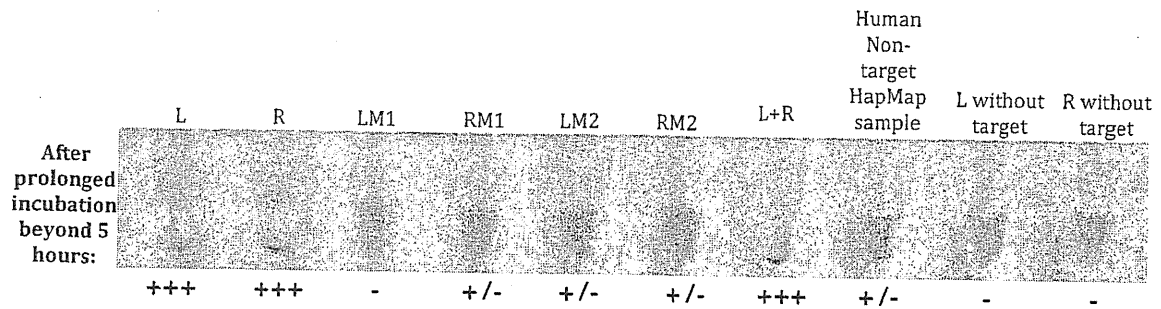


B

Figure 5.

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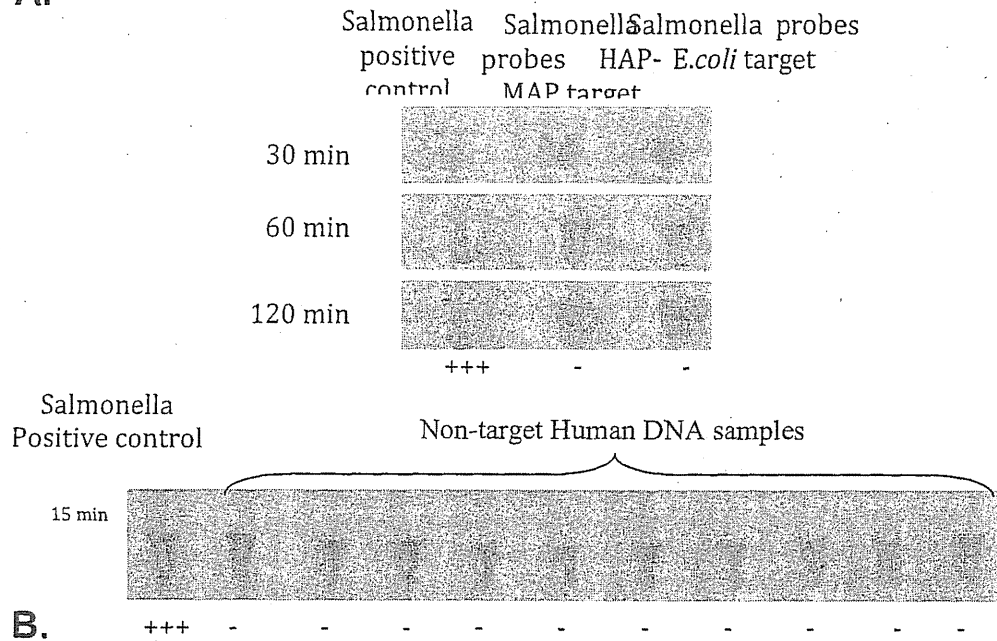
A



B

Figure 6.

A.



B.

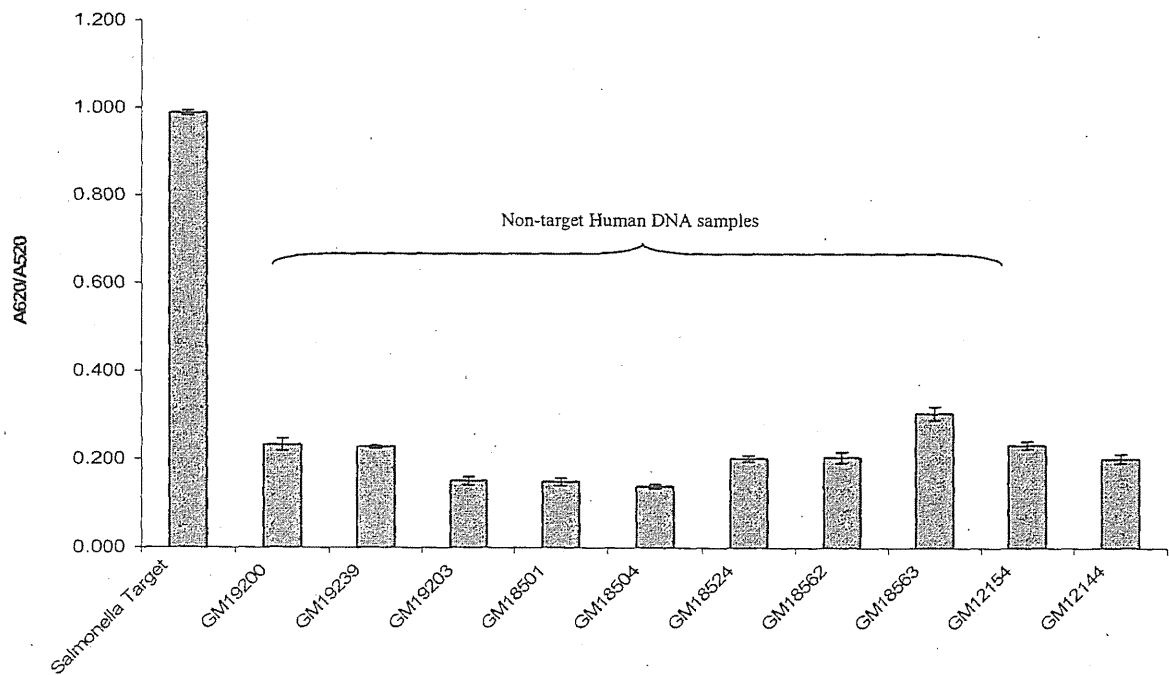


Figure 7.

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Upon AuNP addition

Salmonella Target	Non-Target: E.coli	No Target	Single Mutation	Double Mutation
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After 15min

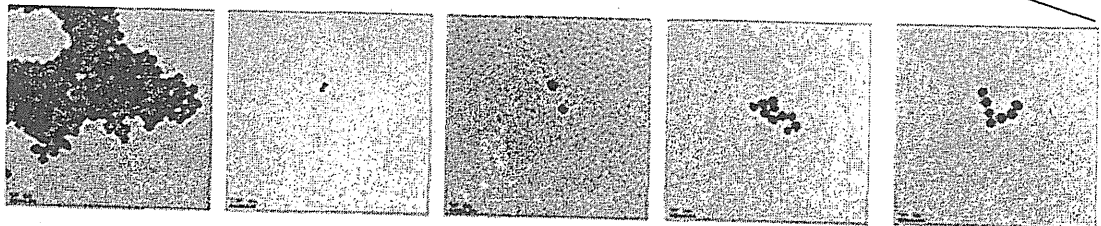
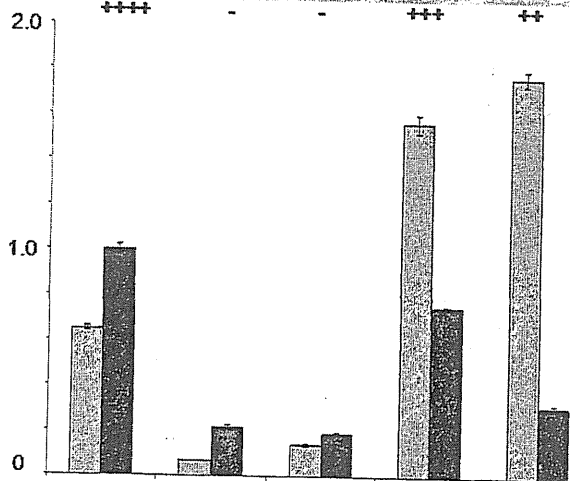
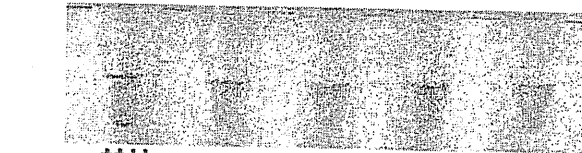


Figure 8.

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Salmonella Thiolated probes	-	-	-	+	+	+
Salmonella Genomic DNA	-	-	+	-	-	+
Human Genomic DNA	-	+	-	-	+	-
E.coli Thiolated Probes	+	+	+	-	-	-
E.coli Genomic DNA	+	-	-	+	-	-
Gold Nanoparticles (15nm)	+	+	+	+	+	+



Visual Signal (A_{620}/A_{520})

After 15 min

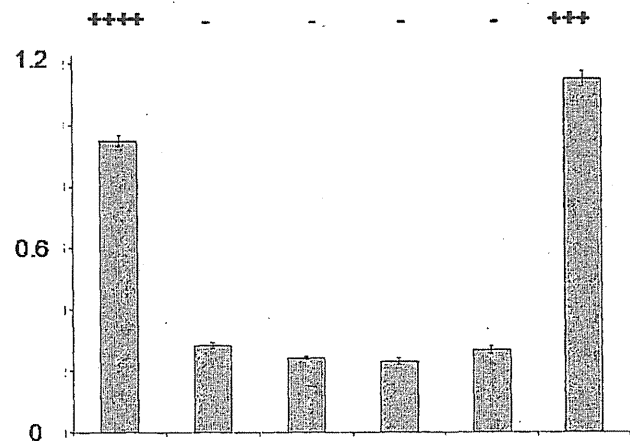


Figure 9

Figure 10

