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## Lab on Phone citrate capped silver nanosensor for lidocaine hydrochloride detection from biological matrix

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Supplementary data

20 cm Figure S1 Light control cabinet and dimension of the setup



Figure S2 UV-Visible spectra of solutions of AgNPs in presence of various concentrations of LHC against the AgNPs as a reference. The curves from bottom to top shows gradually increasing concentrations of LHC from 0.1 to 4.5 ng/ml



*Figure S4* Size distribution of silver nanoparticle (A) in the presence of lidocaine hydrochloride (B) measured by DLS.





Figure S5 ESI Mass spectra of AgNPs (A) after addition of LHC (B)



	Pharmaceutical dosage			Blood			Vitreous humor		
	UV Spectro photo meter	Smart phone Adobe	Smart phone App	UV Spectro photo meter	Smart phone Adobe	Smart phone App	UV Spectro photo meter	Smart phone Adobe	Smart phone App
Label Claimed (mg)	15.00	15.0	15.00	-	-	-	-	-	-
Found	15.20	15.16	15.10	-	-	-	-	-	-
RSD (%)	2.63	3.38	3.5	-	-	-	-	-	-
Added LHC Concentratio n (ng)	10	10	10	10	10	10	10	10	10
Found concentratio n (ng)	10.1	10.06	10.09	9.86	10.38	10.34	10.23	10.01	10.19
Recovery (%)	101	100.6	100.9	98.6	103.8	103.4	102.3	100.1	101.9
RSD (%)	5.51	6.07	3.75	5.64	5.36	5.90	6.92	3.61	1.86

Table S1 Showing real sample analysis from blood and vitreous humor