Supplementary Material

Colorimetric determination using digital image processing of sensor based on polymer-stabilized silver nanoparticles: monitoring of glucose in saliva

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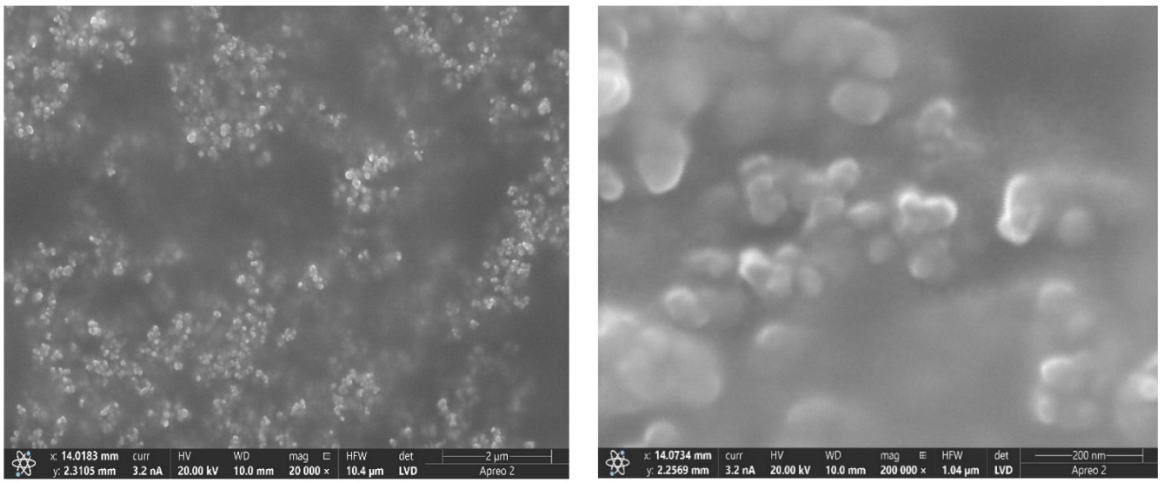

Fig. S1. SEM images of PMM-Ag with different scales 2µm (1) and 200 nm (2)

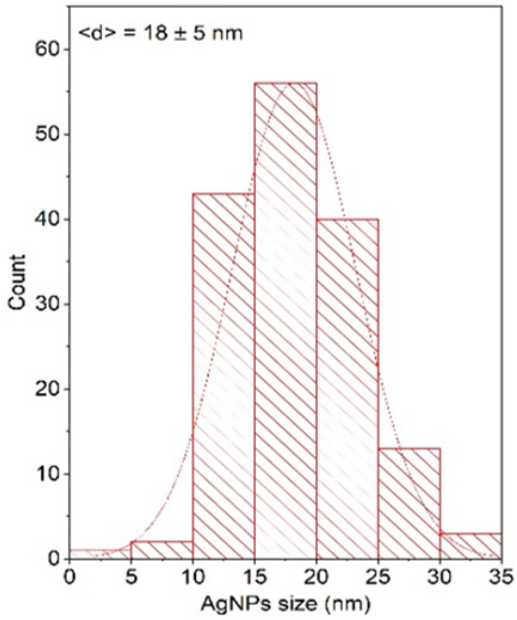

Fig. S2. Size distribution of Ag NPs in PMM prepared by thermal reduction.

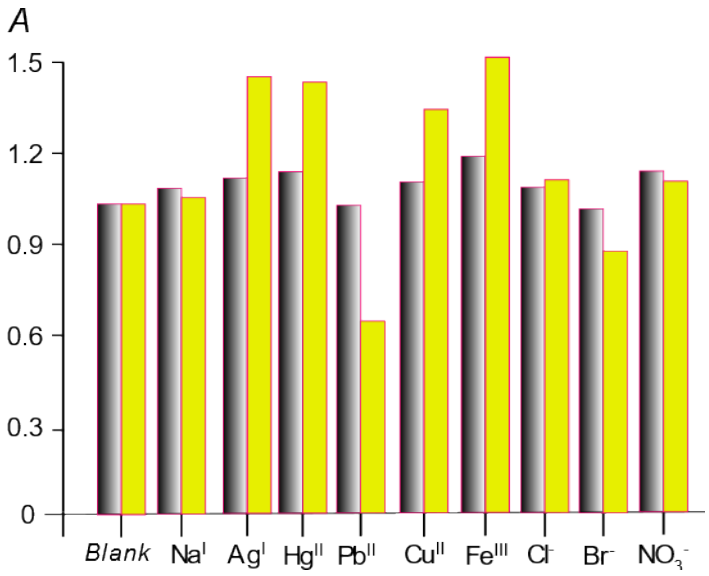

Fig. S3. Selectivity of the spectrophotometric (1) and the colorimetric (2) glucose determination using PMM-Ag^0 in the presence of interfering substances C_{GLU} = 0.40 mM, n=3, ratio 1:10)

Table S1. Comparison between our sensor and that of other jobs

object	Sensor system	AR, µM	LOD, µM	References
H2O2, glucose	NPs Ag / L-cysteine solution	50 -1000	10	[1]
H2O2, glucose	NPs Ag / 5-amino-2-fluorophenylboronic acid	250–20000	90	[2]
H2O2, glucose	NPs Ag / L-cysteine solution	5–70	3	[3]
H2O2, glucose	NPs Ag / PVA solution	0.3–25	0.2	[4]
H2O2, glucose	NPs Ag / Graphene quantum dots	0.5-50	0.16	[5]
H2O2, glucose	NPs Ag / Reduced Graphene Oxide	125-1000	40	[6]
H2O2	NPs Ag / PMMA solution	30 -500	10	[7]
H2O2, glucose	growth AgNPs	0.5-60	0.2	[8]
glucose	NPs Ag / PMM	100-5600	50	This work

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