

Supplementary Materials

Table S1. Study of the system repeatability. Measurements done during the same laboratory session.

Replicate	[Glucose] /M	[Glucose] average / M	s / M	RSD / %
1	0.15	0.15	1.19×10^{-3}	0.8
2	0.15			
3	0.16			
4	0.15			
5	0.15			

Table S2. Study of the system reproducibility. Measurements done during five days over five lemon samples.

Sample	[Glucose] / M	[Glucose] average / M	s / M	RSD / %
1	0.15	0.15	3.75×10^{-2}	2.5
2	0.15			
3	0.14			
4	0.15			
5	0.15			

Table S3. Study of the method robustness. The measurements were done with five different Chitosan-GOx/TiO₂NAs/Ti biosensors.

Biosensor	[Glucose] / M	[Glucose] average / M	s / M	RSD / %
1	0.14	0.15	4.82×10^{-3}	3.3
2	0.15			
3	0.15			
4	0.14			
5	0.15			