

Supplementary Data

Table 1 Cost estimation for the developed sensors.

Chemicals	Total Amounts*	Price, €	Price, cent./8 sensors
SILICA PARTICLES	30 mg	148/5 g	88.8
APTES	0.3 mL	45.90/100 mL	13.77
GLUTARALDEHYDE	0.3 mL	24.40/25 mL	29.28
BSA	16 mg	60/10 g	9.60
EA	326 mg	35/100 g	11.41
TANNIC ACID	2.4 mg	18,90/50 g	0.09
FERRIC SOLUTION	82mg	28.80/250 g	0.94
ACETONE	5.7 mL	47/1000 mL	26.79
TOTAL PRICE, €/ 8 SENSORS			1.81

* The amounts used in each batch allowed the preparation of 8 sensors.