

Supplementary Material

Colorimetric 3D microPAD for Multiplexed Detection of Paracetamol and Aspirin in Urine and Saliva

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S1. Procedure for synthetic saliva and urine samples

Synthetic saliva (1) is made up of the following composition: 100 mL each of 25 mM KH_2PO_4 , 150 mM NaHCO_3 , 100 mM NaCl , and 1.5 mM MgCl_2 . To this, 6 mL of 25 mM citric acid and 100 mL of 15 mM CaCl_2 were added, with the final volume adjusted to 1 liter.

Synthetic saliva (2) is made up of the following composition: 100 mL each of 10.2 mM NaCl , 10.7 mM KCl , 0.29 mM MgCl_2 , 1.08 mM CaCl_2 , 4.6 mM K_2HPO_4 , and 2.4 mM NaHCO_3 , with the final volume adjusted to 1 liter.

Synthetic urine (1) contains 100 mL each of 83.25 mM urea, 1.16 mM sodium citrate, 0.22 mM oxalic acid, 7.04 mM Na_2SO_4 , 3.6 mM CaCl_2 , 4.2 mM MgCl_2 , and 9.35 mM NH_4Cl , with the final volume adjusted to 1 liter.

Synthetic urine (2) contains 100 mL each of 12 mM Na_2SO_4 , 1.5 mM uric acid, 2.5 mM sodium citrate, 250 mM urea, 7.8 mM creatinine, 30.9 mM KCl , 31 mM NaCl , 1.7 mM CaCl_2 , 23.7 mM NH_4Cl , 0.19 mM potassium oxalate, and 4.4 mM MgSO_4 .