Supporting Information

S6 : Evolution of elemental concentrations at the periphery of B75 grains ( ■ ) and in the volume of B75-F127 grains ( □ ), during early hours (zoom Fig. 6).

S7 : Evolution of elemental concentrations in the inner region of B75 grains ( ■ ) and in the volume of B75-F127 grains ( □ ), during the early hours (zoom Fig. 7).

S8 : Evolution of elemental concentrations at the periphery of B67.5 grains ( ○ ) and in the volume of B67.5-F127 grains ( ○ ), during the early hours (zoom Fig. 8).
S9 : Evolution of elemental concentrations in biological fluids for B75 (■) and B75-F127 (□) glasses, during the early hours (zoom Fig.9)

S10 : Evolution of elemental concentrations in biological fluids for B67.5 (○) and B67.5-F127 (●) glasses, during the early hours (zoom Fig.10)

S11 : Evolution of elemental concentrations in the inner region of B75 grains (●) and in the volume of B75-F127 grains (○).
S12: FTIR spectra of F127 surfactant, and mesoporous B67.5 before and after calcination at 600°C.