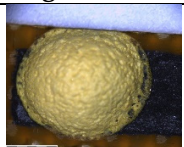
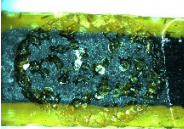
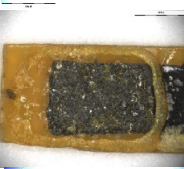
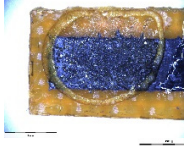


Figure S1. The functional diagram of the measuring setup. Designations: 1 - half-cell, 2 - semipermeable membrane, 3 - immobilized reagent, 4 – CSPE.

Table S1. EMF of microcells with immobilized reagents on CSPE and a ready-made solution of reagents for different immobilization conditions and corresponding micrographs of CSPE (n=5, P=0.95)

Reagents immobilization conditions	(EMFaverage $\pm\Delta$), mV (microcell with immobilized reagents)	(EMFaverage $\pm\Delta$), mV (microcell with a ready solution of reagents)	Micrograph of electrodes with immobilized reagents (2.5-fold magnification)
freeze drying	333 \pm 71	339 \pm 5	
keeping at room temperature	320 \pm 3		
heating (drying cabinet)	336 \pm 9		
heating with convection (drying cabinet)	338 \pm 4		
UV-drying	313 \pm 9		