

Materials and Methods

Electrochemical analysis

Cyclic voltammetry (CV) was performed on the anode of the CC and CN reactors with cathode as the counter electrode, relative to the Ag/AgCl reference electrode. The potential was scanned positively from -0.7 V to 0.2 V at which point the scan direction was reversed. Scan was operated at a rate of 5 mV using a potentiostat/galvanostat (Autolab, Metrohm, model PGSTAT 128N). Once a stable current was achieved in one batch cycle, the reactor was disconnected from the data acquisition system, emptied and refilled with same fresh urine before analysis.

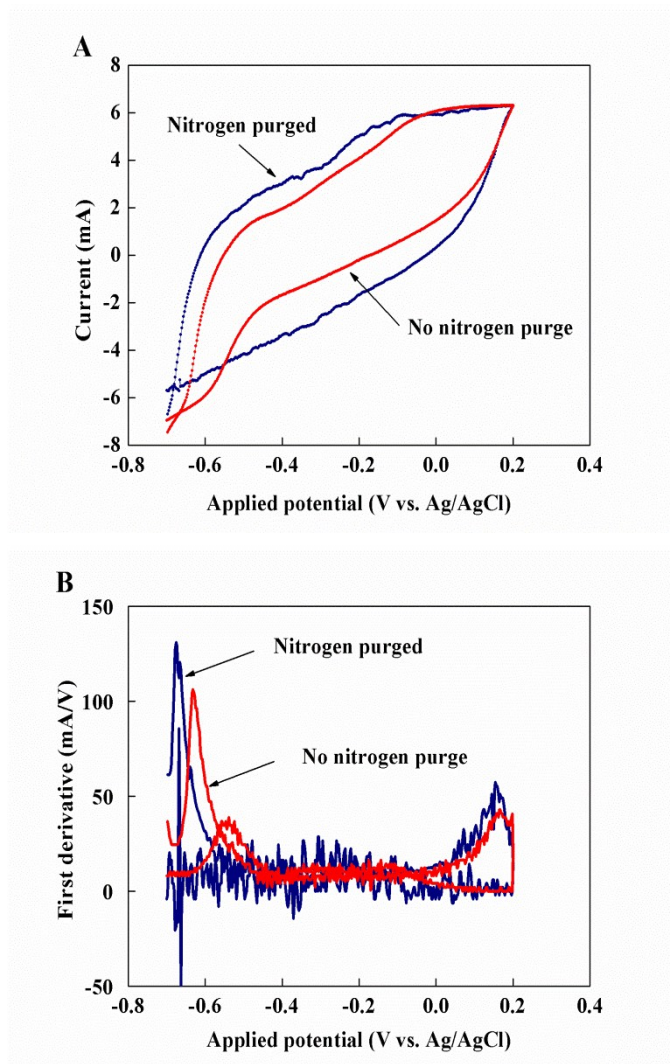


Fig.S1 (A) Cyclic voltammograms and (B) first derivative of cyclic voltammograms of anode biofilms developed in the CC and CN reactors.

Table S1. Various estimators for evaluation of community diversity and richness

Electrode type	Reads	OTUs	Good's coverage	Shannon index
A-OC	6080	1533	0.85	5.89
A-CC	14850	1717	0.94	5.24
A-CN	11204	1218	0.94	4.67
C-OC	65513	3172	0.97	4.68

C-CC	58134	3199	0.97	4.86
C-CN	72044	2955	0.98	4.84

Table S2 Key components measured in real urine

Components	Na ⁺	K ⁺	Mg ²⁺	PO ₄ ³⁻ -P
Unit			mg/L	
Value	1511	482	19	151