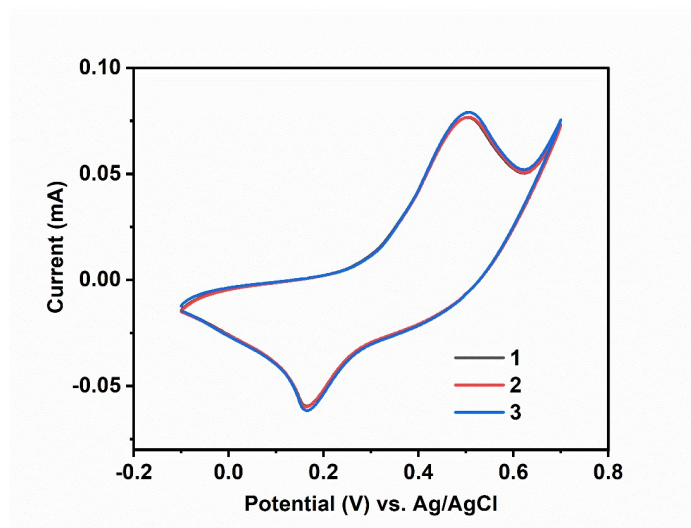


## Electronic supporting information (ESI)

ESI:S1. Cyclic voltammogram of glucose determination in blood plasma in 1.0 M NaOH at NiCo<sub>2</sub>O<sub>4</sub>@Ni Foam



ESI:S2. Glucose content calculation in blood plasma using CV measurement

Oxidation peak current at glucose detection using CV technique

Measurement	Current (mA)
1	0.0665
2	0.0664
3	0.0664
Average	0.0664

$$y = 0.0173x - 0.0002$$

$$0.0664 = 0.0173[\text{glucose}] - 0.0002$$

$$[\text{glucose}] = 3.8 \mu\text{M}$$

$$\text{Initial concentrations} = [\text{glucose}] \times \text{diluting factor} = 9.53 \text{ mM}$$

$$\text{mM conversion to mg/dL} = 9.53 / 0.0555$$

$$= 173.28 \text{ mg/dL}$$

ESI:S3. Glucose determination using gluco detector



