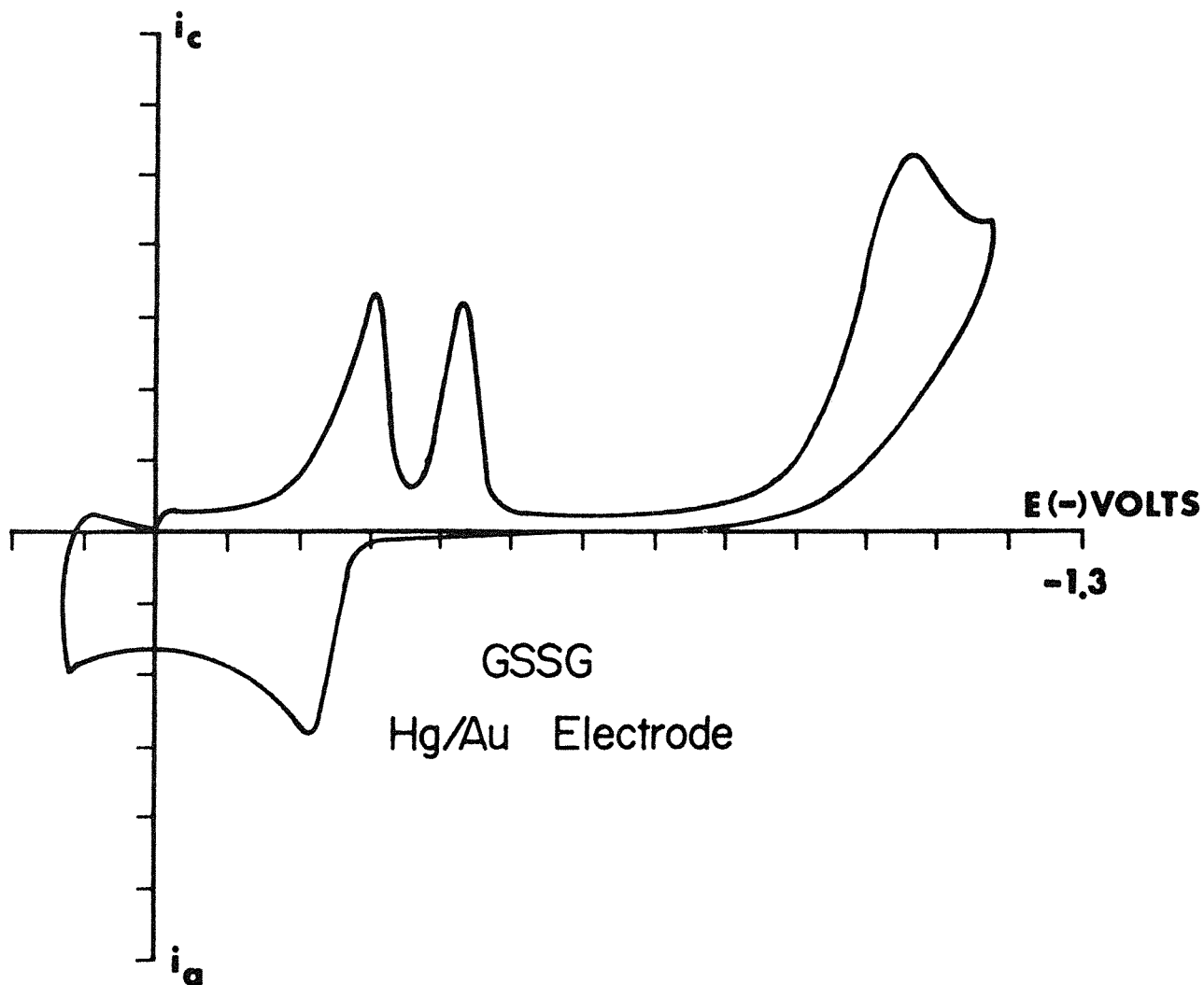


CV NOTES

OXIDIZED GLUTATHIONE



SAMPLE: Oxidized
Glutathione
(GSSG)

MEDIUM: Monochloroacetic
Acid pH = 3.0

CONC: 1mM

RATE: 20mV/sec.

ETRODE: Au/Hg

REF: Ag/AgCl

MODEL: CV-1B

Glutathione is an important peptide present in a variety of tissues, such as liver, kidney, and brain. The balance of oxidized-to-reduced forms of GSH in these tissues is extremely important. Glutathione disulfide is reduced at $E_{pa} = -1.1V$. The CV shows two adsorption waves at $-240mV$ and $-420mV$. These could be due to the reduction of an adsorbed mercury disulfide complex. Electrolysis studies show that the peak at $-1.1V$ is due to $GSSG + 2e^- + 2H^+ \rightarrow 2GSH$. Possible mechanisms for the other peaks include reduction of $(GS)_2 Hg$ which may be adsorbed to the mercury surface.



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