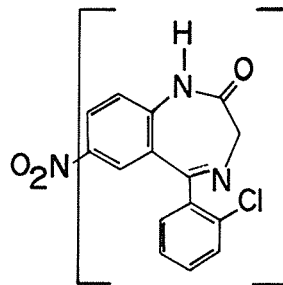
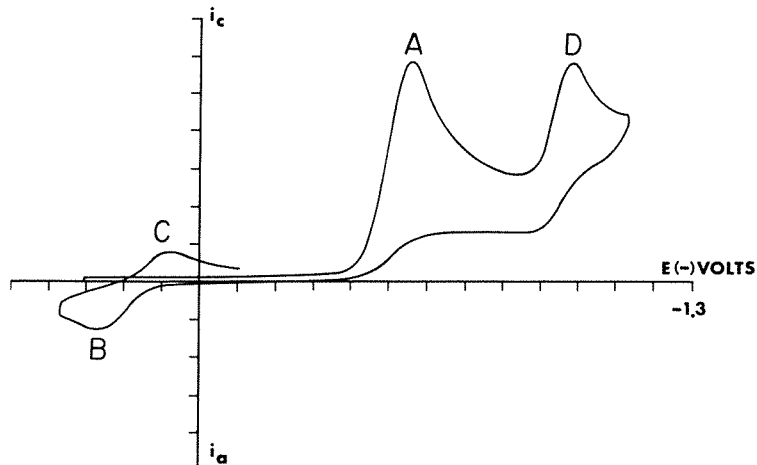


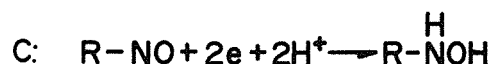
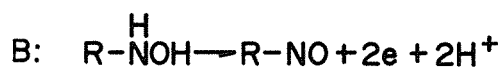
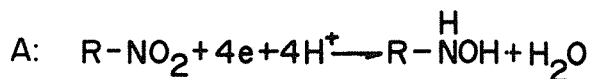
CV NOTES

CLONAZEPAM

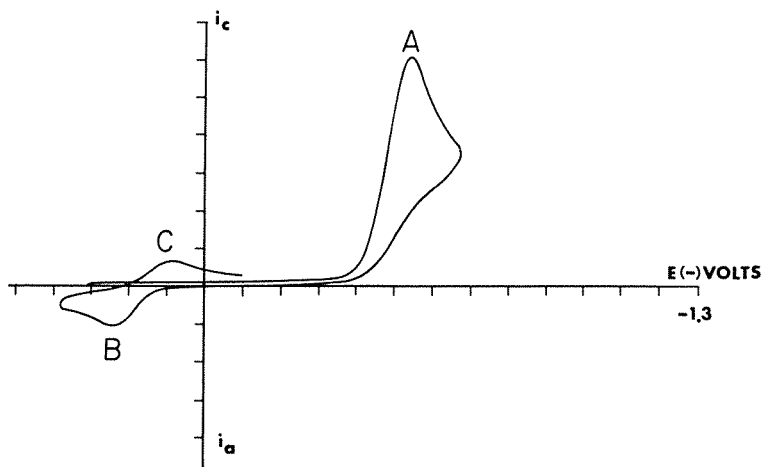
CV I



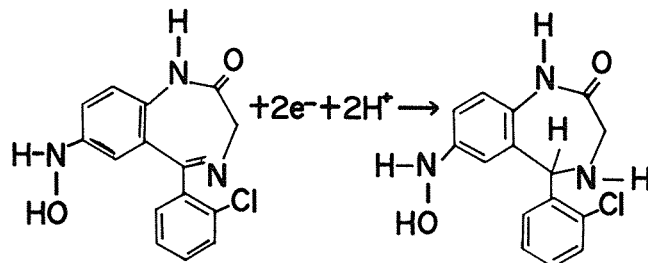
[]=R



CV II



D:



SAMPLE: Clonazepam
 MEDIUM: 70% 0.1M monochloroacetate, pH 3, 30% isopropyl alcohol
 CONC.: 0.2 mg/mL
 RATE: 100 mV/sec
 ELECTRODE: Glassy Carbon
 REFERENCE: RE-1, Ag/AgCl/3M KCl
 MODEL: CV-1A

Clonazepam, an anti-convulsant drug, demonstrates how molecules may have more than one electroactive moiety. Clonazepam contains a nitro and an imine; both are easily reduced (peaks A and D). If only the peak A reduction is carried out, the substance oxidized at B is still created (CVII). From this information, plus the known mechanism of nitro group electrochemistry, peak A is deduced to be the reduction of the nitro functionality, leaving D to be the imine reduction.



2701 Kent Ave
 West Lafayette
 Indiana 47906