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Characterization of avian carbonyl reductase

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Carbonyl reductases generally localize in the cytoplasm of liver, kidney and brain, and are considered to protect the cell against toxic carbonyl metabolites. We recently purified a new carbonyl reductase to electrophoretic homogeneity by using ammonium sulfate fractionation, CM-Sepharose chromatography and Sephacryl S-200 chromatography. The purified enzyme was found capable of reducing benzoquinone and naphthoquinone as well as various carbonyl compounds. The optimum PH of the enzyme was 6.5. The enzyme was strongly inhibited by cibacron blue 3 GA and syn-benzaldehyde oxime. And some other biochemical properties will be presented.