APPENDIX XIII

ESTIMATION OF CATALASE ACTIVITY

(Luck, 1974)

Principle

On decomposition of hydrogen peroxide by catalase, absorption between 230-250 nm decreases with time. Enzyme activity can be arrived at from this decrease.

Reagent

1. 0.06 M Phosphate buffer of pH 7.0
2. Phosphate buffered hydrogen peroxide solution

Procedure

Into the experimental cuvette 3 ml phosphate buffered hydrogen peroxide (10 per cent v/v) was taken. Mix 0.01 to 0.05 ml homogenate with a glass or plastic rod flattened at one end. The time change required for a decrease in absorbance from 0.45 to 0.4 is noted.

The results are expressed as mean of enzyme units/mg protein x 10^{-3}.