

Change in the unit of superoxide dismutase activity ( $SOD_{50}$ ) with inactivation of the enzyme. The  $SOD_{50}$  for the native enzyme is 0.832 x  $10^{-9}$  M . The dotted line indicates the shift in the data when the enzyme is 50% inactivated, giving an  $SOD_{50}$  of 1.66 x  $10^{-9}$  M, twice that of the untreated native enzyme. This means that the treated enzyme is 50% active when compared to the untreated enzyme:

(SOD<sub>50</sub> native) / (SOD<sub>50</sub> inactivated) x 100% = 
$$\frac{0.832 \times 10^{-9} \text{ M}}{1.66 \times 10^{-9} \text{ M}} * 100\% = 50\%$$