

## Sarcosine oxidase, Enzyme Activity

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Catalog	Unit
TBP0042-100U	100U
TBP0042-500U	500U

### Preparation and Specification

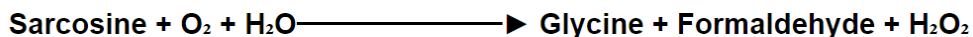
Appearance: Yellowish amorphous powder, lyophilized

Activity: GradeIII 8.0U/mg-solid or more

Contaminant: Catalase  $\leq 1.0\%$

Stabilizers: Potassium gluconate

**Sarcosine: oxygen oxidoreductase (demethylating) (EC 1.5.3.1)**



### Properties

Stability: Stable at  $-20^\circ\text{C}$  for at least One year

Molecular weight: approx.43,000 (by SDS-PAGE)

Isoelectric point:  $4.8 \pm 0.1$

Michaelis constant:  $2.8 \times 10^{-3}\text{M}$

Inhibitors:  $\text{Cu}^{++}$ ,  $\text{Ag}^{+}$ ,  $\text{Hg}^{++}$ , p-chloromercuribenzoate, N-ethylmaleimide, SDS

Optimum pH: 7.5-8.5

Optimum temperature:  $55-60^\circ\text{C}$

pH Stability: 6.0-9.5 ( $25^\circ\text{C}$ , 20hr)

Thermal stability: below  $60^\circ\text{C}$  (pH 7.5, 30min)

### Applications

This enzyme is useful for enzymatic determination of creatinine, creatine, and sarcosine when coupled with creatinine amidohydrolase (CNH-211, CNH-311) and creatine amidinohydrolase (CRH-211, CRH- 221, CRH-229).

For research use only