

FUJIFILM

Wako

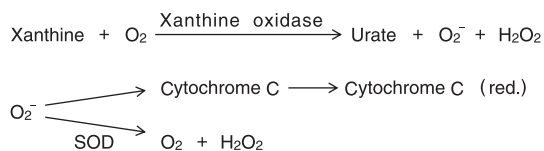
Code No. 195-10291 (15,000 units)

Superoxide Dismutase (Mn Type) スーパーオキシドジスムターゼ (Mn 型)

Source : *Bacillus* sp.
Physical form : White lyophilized powder
Activity : Indicated on the label
Molecular weight : approx. 50,000
Optimal pH : 9.5
Isoelectric point : 4.5

Assay method

1. Principle



2. Preparation of Enzyme Solution

Dissolve the Enzyme with distilled water and dilute to approx. 600 units/mL with 50 mmol/L Potassium Phosphate (pH 7.5).

Note) Dilute the enzyme solution with 50 mmol/L Potassium Phosphate (pH 7.5) for the results to be valid.

3. Assay condition

Assay mixture
Potassium Phosphate (pH 7.8) 55 mmol/L
EDTA 0.1 mmol/L
Xanthine 0.05 mmol/L
Xanthine Oxidase 0.0027 units/mL
Cytochrome C 0.01 mmol/L
Enzyme Solution approx. 1 unit/mL

The rate of reduction of cytochrome C is measured at 550 nm.

4. Unit definition

One unit is the amount of enzyme, which inhibits the rate of reduction of cytochrome C by 50% at 30°C.

Trans *

単位の定義

前記の条件下、30°C でチトクローム C の還元反応速度を 50% 阻害する酵素量を 1unit とする。

【Storage】 Store at 2 – 10°C.

【Package】 15,000 units.

【References】

1. Brock, C. J. and Walker, J. E. : *Biochemistry*, **19**, 2873 (1980).
2. Auffret, A. D., Blake, T. J. and Williams, D. H. : *Eur. J. Biochem.*, **113**, 333 (1981).

* : **Trans** is the Japanese translation.

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