rN T R

Thioredoxin reductase, recombinant from yeast

NADPH : oxidized-thioredoxin oxidoreductase (EC 1.6.4.5)

Host cell : E. coli

Reaction Equation

Thioredoxin (oxidized form) + NADPH =
Thioredoxin (reduced form) + $NADP^+$

Specification

	Specifications
Specific Activity IU/mg protein	>5 units
Purity SDS-PAGE analysis using 1 μg of the protein	≧95%

Assay Procedure

Ⅰ. Spectrophotometric Method

Wavelength ; 410 nm, Light path length ; 1 cm,
Temperature ; 25℃

Pipette the following reagents into a cuvette

3.01 mL Na-phosphate buffer (100 mmol/L, pH 7.0) containing EDTA (1 mmol/L), BSA (0.2 mg/mL), NADPH (0.2 mmol/L), DTNB (5 mmol/L)

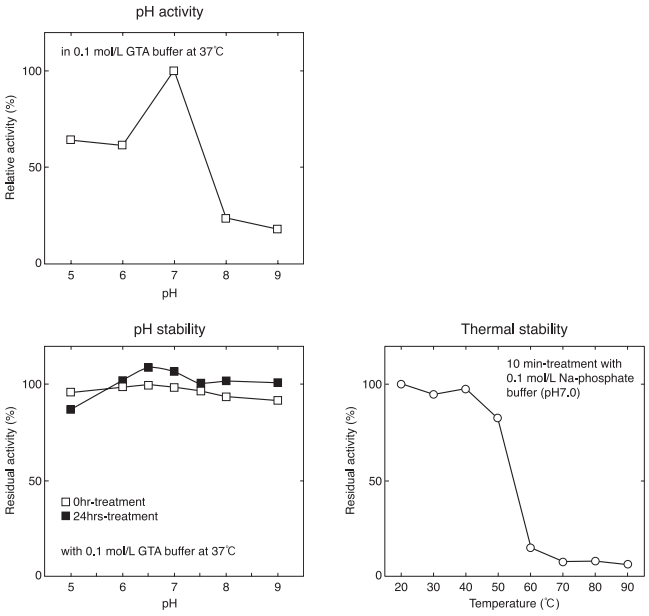
0.01 mL rNTR (about 5 IU/mL)

Ⅱ. Calculation

$$\frac{\Delta A/\min \cdot V \cdot D}{d \cdot v} = U/mL$$

ΔA/min = The change in absorbance at 410 nm/minute
V = Total volume of reaction mixture (3.02 mL)
D = Enzyme dilution factor
d = Light path length (1 cm)
v = Volume of enzyme sample (0.01 mL)

Reference Data



Preparation and storage

Product Code : rNTR-03
Lyophilized powder (contains no ammonium sulfate)
·····below −20℃

OYC No./Package

OYC No.	Package
47758900	0.1 mg
47757000	1 mg

(Research reagent use only, not for medical use.)