

Formaldehyde Dehydrogenase from Pseudomonas sp.

Product Code: 182621

EC no: 1.2.1.46

SKU: 182621

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS:

EC 1.2.1.46

Product name: Formaldehyde: NAD⁺ oxidoreductase

Appearance: White amorphous powder, lyophilized

Activity: Grade II, 1.0 U/mg-solid or more (contains approx. 70% stabilizers)

Contaminants: NADH oxidase: $\leq 1.0 \times 10^{-1}$ %

Stabilizers: Mg²⁺, Ca²⁺, bovine serum albumin, glycine, lysine

Stability: Stable at - 20 °C for at least one year

Molecular weight: Approx. 150,000 (by gel filtration)

Isoelectric point 5.25

Michaelis constants: 8.0×10^{-5} M (HCHO), 1.2×10^{-4} M (NAD⁺)

Structure: 2 subunits (75,000) per mol of enzyme

Inhibitors: Chelating agents, Ni²⁺, Cd²⁺, Hg²⁺, PCMB, ionic detergents

Optimum pH: 9.0

Optimum temperature: 40°C

pH Stability: pH 8.0 – 10.0 (30°C, 16hr)

Thermal stability: Below 40 °C (pH 7.5, 30min)