We offer various packaging (protein concentration, activity, etc.) if necessary.

### Data sheet

Enzyme ; Formaldehyde dehydrogenase	Enzyme	; Formaldehyde dehydrogenase
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Code ; FDH-65-01

Lot No. ;

Protein conc. ; mg/ml Volume ; ml

Form ; 20 mM Tris-HCl (pH 8.0)

Storage ; -20 °C \*Avoid repeated freeze and thaw cycles.

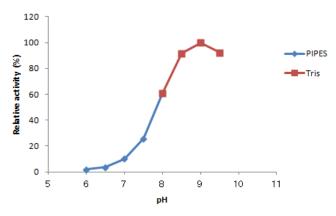
Activity ; U/ml

Notes ; For research use only

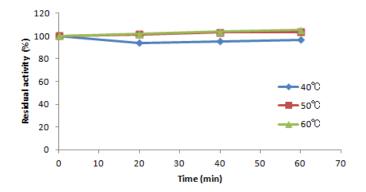
#### **Activity measurement**

Reaction mix (50 mM Tris-HCl (pH 9.0), 1 mM Formaldehyde, 0.3 mM NAD<sup>+</sup>, 5 mM MgCl<sub>2</sub> and appropriate amount of the enzyme) was incubated at 37 °C and  $A_{340}$  was monitored. One unit is defined as the amount of the enzyme producing 1  $\mu$ mol of NADH ( $\epsilon_{340}$ =6.22 mM<sup>-1</sup> cm<sup>-1</sup>) per 1 minute using Formaldehyde as a substrate.

### pH profile

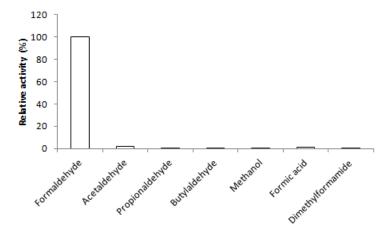


### **Thermostability**

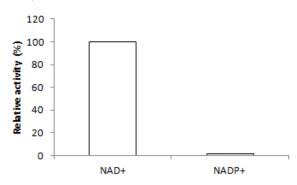




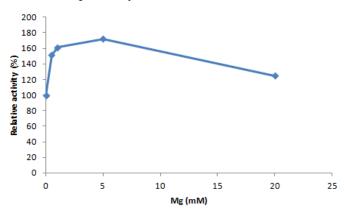
# Substrate specificity



### Co-enzyme specificity



## Mg Concentration dependency



## Kinetic parameters

 $K_{\rm m}$  for Formaldehyde = 0.08 mM (@37 °C, pH 9.0)