There is a possibility of changing the 'Code' and/or 'Lot No.'

'Protein conc.' and 'Activity' might vary between lots.

Data sheet

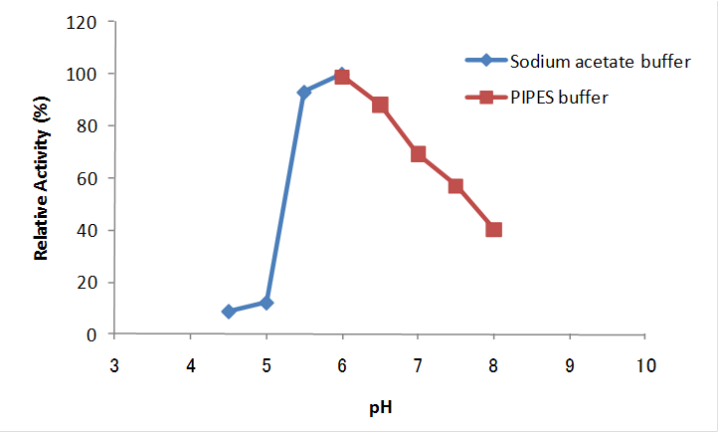
Enzyme	;	**Pyruvate kinase HI1**

Code	;	PYK-75-01
Lot No.	;	0-I101A
Protein conc.	;	1.5 mg/ml
Volume	;	1 ml
Form	;	50 mM Tris-HCl (pH 7.5), 50 mM NaCl
Storage	;	-20 ℃
Activity	;	113 U/ml
Notes	;	For research use only

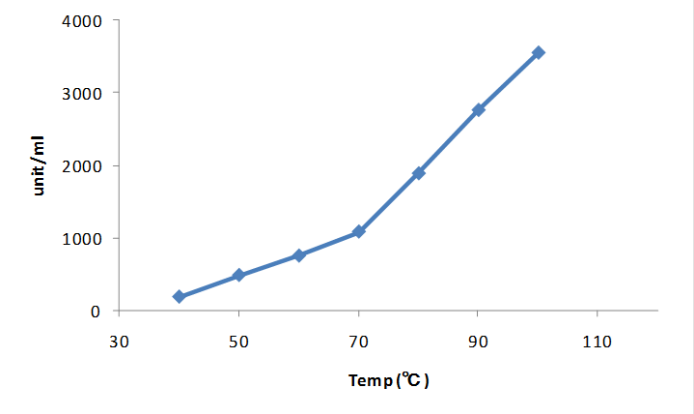
Activity measurement

Reaction mix (20 mM Potassium phosphate buffer (pH 7.0), 5 mM Phosphoenolpyruvate, 0.3 mM NADH, 5 mM $MgCl_2$, 1 mM ADP, 0.1 mM TPP, 4 U/ml Pyruvate decarboxylase、46 U/ml Alcohol dehydrogenase and appropriate amount of the enzyme) was incubated at 50 °C and A_{340} was monitored. One unit is defined as the amount of the enzyme oxidizing 1 μmol of NADH (ε_{340}=6.22 mM^{-1} cm^{-1}) per 1 minute using Phosphoenolpyruvate as a substrate.

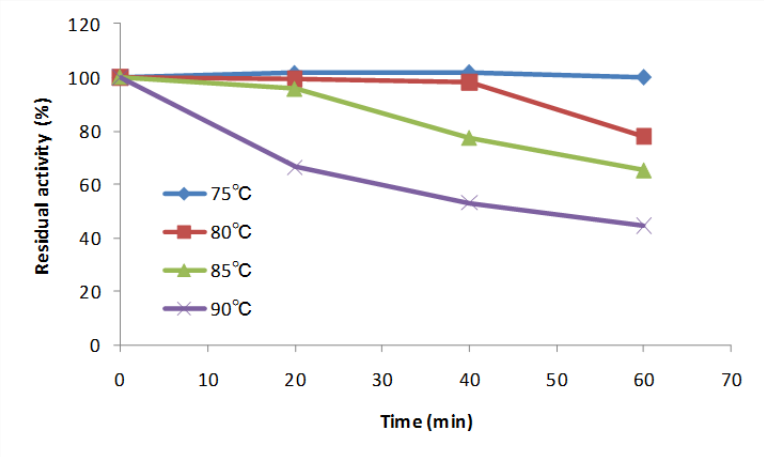
pH profile



Temperature profile



Thermostability



Kinetic parameters (@37 °C, pH6.0)

K_m (Phosphoenolpyruvic acid) = 0.78 mM

K_m (ADP) = 1.5 mM