

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

## Data sheet

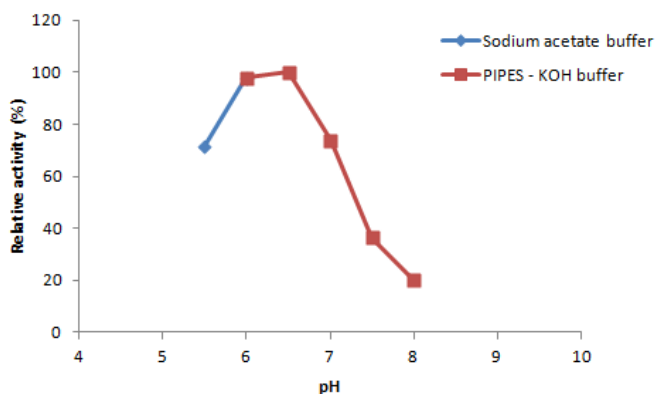
|        |                             |
|--------|-----------------------------|
| Enzyme | ; <b>Arsenate reductase</b> |
|--------|-----------------------------|

Code ; ARS-03-01  
 Lot No. ; 1-I301  
 Protein conc. ; mg/ml  
 Volume ; ml  
 Form ; 20 mM Tris-HCl (pH 8.0) , 50mM NaCl  
 Storage ; -20 °C \*Avoid repeated freeze and thaw cycles  
 Activity ; U/ml  
 Notes ; For research use only.

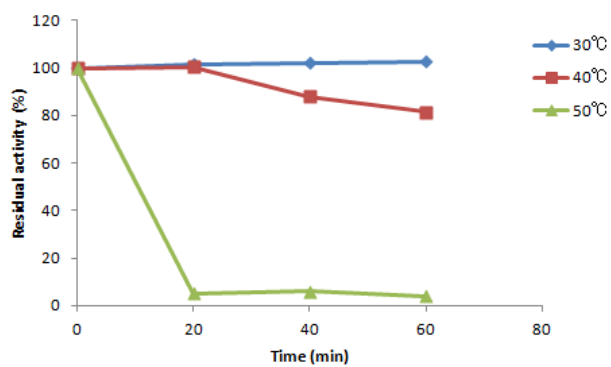
### Activity measurement

Reaction mix (50 mM PIPES-KOH (pH 6.5), 10 mM Arsenate, 0.2 U/ml Glutathione reductase, 10 µg/ml Glutaredoxin 2, 1 mM Glutathione reduced form, 0.3 mM NADPH 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 oxidizing 1 µmol of NADH ( $\epsilon_{340}=6.22 \text{ mM}^{-1} \text{ cm}^{-1}$ ) per 1 minute using Arsenate as a substrate.

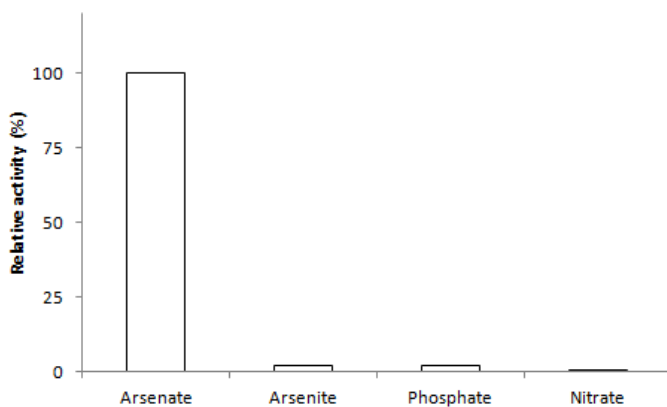
### pH profile



## Thermostability



## Substrate specificity



## Kinetic parameters

$K_m$  for Arsenate = 8.3 mM (@37 °C, pH 6.5)