

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

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

#### Data sheet

|        |   |                                |
|--------|---|--------------------------------|
| Enzyme | ; | <b>Glucose 1-dehydrogenase</b> |
|--------|---|--------------------------------|

Code ; GCD-41-01

Lot No. ; 1-H202

Protein conc. ; 10 mg/ml

Volume ; 1 ml

Form ; 50 mM Tris-HCl (pH 8.0)

Storage ; -20 °C

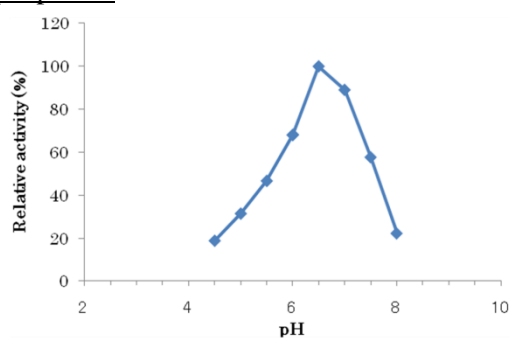
Activity ; 546 U/ml

Notes ; For research use only.

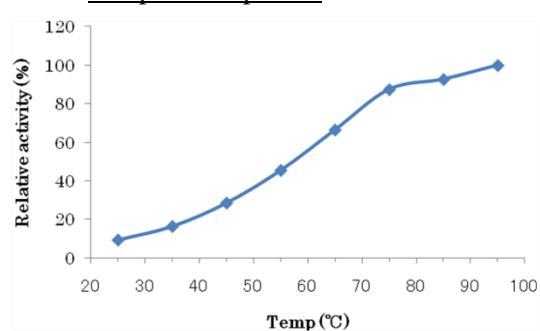
#### Activity measurement

Reaction mix (50 mM PIPES-KOH (pH 6.5), 10 mM Glucose, 1 mM NADP<sup>+</sup> and appropriate amount of the enzyme) was incubated at 37 °C and A<sub>340</sub> was monitored. One unit is defined as the amount of the enzyme producing 1 μmol of NADPH ( $\epsilon_{340}=6.22 \text{ mM}^{-1} \text{ cm}^{-1}$ ) per 1 minute using Glucose as a substrate.

#### pH profile



#### Temperature profile



#### Thermostability (pH6.5)

