

# PYRUVATE KINASE (Rabbit Muscle) (Lot 141201)

#### E-PKRM

04/15

100 mM

0.2 mM

0.2 mM

10 mM

5 mM

136 U/mL

(EC 2.7.1.40) ATP:pyruvate 2-O-phosphotransferase CAS: 9001-59-6

## PROPERTIES

### I. ELECTROPHORETIC PURITY:

Single band on SDS-gel electrophoresis (MW ~ 59,000)
One major band on isoelectric focusing (pl ~ 7.7)

# 2. SPECIFIC ACTIVITY:

## 233 U/mg protein at pH 7.2 and 37°C.

**One Unit** of pyruvate kinase activity is defined as the amount of enzyme required to convert one  $\mu$ mole of phosphoenolpyruvate to pyruvate per min in Tris.HCl buffer (100 mM) at pH 7.2 at 37°C.

Tris.HCl buffer, pH 7.2 NADH Phosphoenolpyruvate KCl Magnesium sulphate D-LDH

### 3. SPECIFICITY:

ATP + pyruvate = ADP + phosphoenolpyruvate

### 4. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 7.2 and up to 70°C

pH Optima:7.2pH Stability:5.0-11.0 (> 75% control activity after 24 hours at 4°C)Temperature Optima:60°C (10 min. reaction)Temperature Stability:up to 50°C

## 5. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension in 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in Tris. HCl buffer (100 mM), pH 7.2 containing I mg/mL BSA. Swirl to mix the enzyme immediately prior to use.



#### 7. **REFERENCES**:

Mollering, H. (1985). Pyruvate Kinase. In *Methods of Enzymatic Analysis* (Bergmeyer, H. U., Ed.) VCH Publishers (UK) Ltd., Cambridge, UK., 3rd ed., **Vol. II**, pp. 303-304.