L-LACTATE DEHYDROGENASE (Porcine) (Lot 111001b)

Recombinant
E-LLDHP **09/19**
(EC 1.1.1.27) (S)-lactate : NAD+ oxidoreductase

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 36,000)
- Single major band on isoelectric focusing (pI ~ 5.5)

2. SPECIFIC ACTIVITY:

335 U/mg protein at pH 7.0 and 37°C

One Unit of L-lactate dehydrogenase is defined as the amount of enzyme required to produce one µmole of NAD^+ from NADH per minute under the following assay conditions:

Sodium phosphate buffer, pH 7.0	100 mM
NADH	0.2 mM
Pyruvic acid	0.8 mM

3. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 5.0 - 7.0 and 25°C - 37°C.

pH Optima:	7.0 - 8.0
pH Stability:	6.0 - 10.0
Temperature Optima:	37°C (~ 50% activity at 25°C)
Temperature Stability: up to	55°C

4. STORAGE AND USE 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 (10 mM), pH 7.5 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**