

# Lactate Dehydrogenase

## Catalogue No. LADE-70-1411

### ORIGIN

Microbial

### SPECIFICATIONS

Appearance	Freeze dried powder
Activity	>100 u/mg powder at 25°C
Contaminants	
o NADH Oxidase	<0.0001%
o Alpha-Ketoglutaric Dehydrogenase	<0.0003%
o Glutamic-oxaloacetic Transaminase	<0.0005%
o Glutamic-pyruvic Transaminase	<0.0005%

### CHARACTERISTICS

Molecular weight	64kDa
Isoelectric point	4.3
K <sub>m</sub> values	
o NADH	7.6 x 10 <sup>-4</sup> M
o NADH Oxidase	6.7 x 10 <sup>-4</sup> M
Optimum pH (Fig. 1)	5.0
Optimum temp (Fig. 2)	40°C
pH stability (Fig. 3)	5.5 - 8.5 (30°C, 60 min.)
Thermal stability (Fig. 4)	Below 35°C (pH 7.0, 60 min.)
Lyophilised stability	2 years at -20°C or below

**FIG.1** pH Optimum



**FIG.2** Temperature Optimum



