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## Product Data Sheet

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Product Name: lldD E. coli  
 Cat. No.: GP21885  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	L-lactate dehydrogenase [cytochrome]; lldD; lctD; b3605; JW3580.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMMIISAA SDYRAAAQRI LPPFLFHYMD GGAYSEYTLR RNVEDLSEVA LRQRILKNMS DLSLETTLFN EKLSMPVALA PVGLCGMYAR RGEVQAAKAA DAHGIPFTLS TVSVCPIEEV APAIKRPMWF QLYVLRDRGF MRNALERAKA AGCSTLVFTV DMPTPGARYR DAHSGMSGPN AAMRRYLQAV THPQWAWDVG LNGRPHDLGN ISAYLGKPTG LEDYIGWLGN NFDPSISWKD LEWIRDFWDG PMVIKILDP EDARDAVRFG ADGIVVSNHG GRQLDGVLS ARALPAIADA VKGDIAILAD SGIRNGLDVV RMIALGADTV LLGRAFLYAL ATAGQAGVAN LLNLIKEMK VAMTLTGAKS ISEITQDSL QGLGKELPAA LAPMAKGNA.		
Formulation	The lldD solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 1mM DTT.		

### Introduction

L-lactate dehydrogenase (lldD) is present in a various organisms, including plants and animals. lldD is an oxidoreductase which catalyses the interconversion of pyruvate and lactate with concurrent interconversion of NADH and NAD<sup>+</sup>. Seeing that lldD can catalyze the oxidation of hydroxybutyrate, it is occasionally called Hydroxybutyrate Dehydrogenase (HBD).

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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IldD E.Coli Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 420 amino acids (1-396) and having a molecular mass of 45.3kDa. IldD is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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