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## Product Data Sheet

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Product Name: IdhA E. coli  
 Cat. No.: GP21821  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	D-lactate dehydrogenase; D-LDH; Fermentative lactate dehydrogenase; IdhA; hslI; htpH; b1380; JW1375.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSHMKLAVY STKQYDKKYL QQVNESFGFE          LEFFDFLLTE KTAKTANGCE AVCIFVNDG SRPVLEELKK HGVKYIALRC          AGFNNVDLDA AKELGLKVVR VPAYDPEAVA EHAIGMMMTL NRRIHRAYQR          TRDANFSLEG LTGFTMYGKT AGVIGTGKIG VAMLRILKGF GMRLLAFFDPY          PSAAALELGV EYVDLPTLFS ESDVISLHCP LTPENYHLLN EAAFEQMKNQ          VMIVNTSRGA LIDSQAAIEA LKNQKIGSLG MDVYENERDL FFEDKSNDVI          QDDVFRRLSA CHNVLFTGHQ AFLTAEALTS ISQTTLQNL NLEKGETCPN ELV.</p>		
Formulation	The IdhA solution (1mg/ml) contains 20mM Tris-HCl buffer, pH8.0, 10% glycerol and 100mM NaCl.		

### Introduction

D-lactate dehydrogenase (Idha) is a member of the D-isomer specific 2-hydroxyacid dehydrogenase family. In enzymology, an Idha (cytochrome) is an enzyme which catalyzes the chemical reaction. Therefore, the 2 substrates of the Idha enzyme are (D)-lactate and ferricytochrome c, whereas its 2 products are pyruvate and ferrocyanochrome c.

### 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

IdhA E.Coli Recombinant produced in E.coli is a single, non-glycosylated polypeptide

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

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chain containing 353 amino acids (1-329) and having a molecular mass of 39.1kDa. IdhA is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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