



## **PROTEIN DATASHEET**

PROTEIN NUMBER		EXPRESSION HOST
2016-1280	LDH-Pv (Purified recombinant <i>P. vivax</i> LDH)	Escherichia coli

General Information		
Construct Design		LDH-Pv (2-316) was expressed with a polyhistidine-tag
		followed by a Human Rhinovirus 3C protease cleavage site at
		the N-terminus.
		Full length: 334 amino acids
		Primary sequence length: 315 amino acids (1Thr- 315lle*)
Theoretical Molecular Mass	:	36.2 kDa
Theoretical pl	:	6.83
Cell Strain	:	Rosetta (DE3) pLysS
Protein Description	:	The Lactate dehydrogenase protein (LDH) is critical for the
		conversion of lactate to pyruvate in anaerobic glycolysis
		pathway to generate ATP for the malarial parasite to survive in
		the human host. Structural and sequence identity of LDH from
		Plasmodium vivax is highly similar to LDH from Plasmodium
		falciparum with only minor conformational differences
		identified in their co-factor binding site.
Application	:	Wide range of assays such as enzymatic assay,
		immunoassay, protein-protein interaction assay.
		Note: optimal working dilution should be determined by the
		user.
Restriction	:	This product is for research use only. It is not intended for use
		in humans.
FORMULATION AND STORAGE		
Form	:	Liquid
Purity	:	> 99 % as determined by SDS-PAGE
Protein Concentration	:	2.13 mg/mL (Lot specific)
Storage Buffer	:	Phosphate Buffer Saline + 5% Glycerol
Storage Condition	:	For longer term storage aliquot in small volumes and store at
		-80°C. Repeated freeze-thaw cycles not recommended.
Shipping Condition	:	Shipped on dry ice. Stored at -80°C upon receipt.





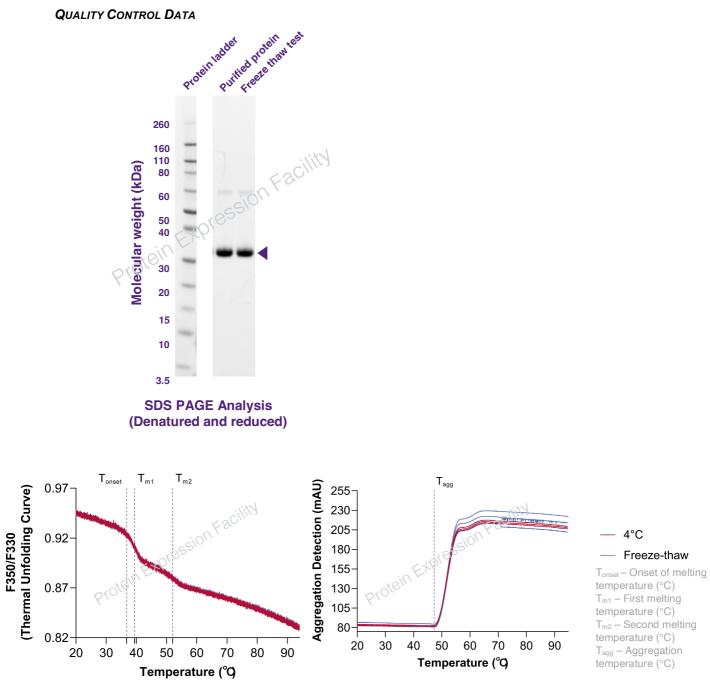
## **COMPREHENSIVE QUALITY CONTROL**

Protein Purity	:	Determined by SDS-PAGE	
Protein Stability	:	Freeze-thaw stability by SDS-PAGE	
		Protein unfolding and aggregation onset temperature	
		determined by differential scanning fluorimetry	





## **QUALITY CONTROL DATA**



## Nano Differential Scanning Fluorimetry Analysis

Recipients using LDH-Pv from Protein Expression Facility must acknowledge the facility's contribution in written publications and/or oral presentations.