

ESTROM LDH (L-P) (Lypho) (UV KINETIC METHOD)



This reagent kit is for quantitative estimation of Lactate Dehydrogenase activity in serum.

The substrate lactate and NAD gives Pyruvate and NADH as an end product in a reaction catalyzed by LDH. Increase in absorbance at 340 nm is proportional to LDH activity and corresponds to reduction of NAD.



CLINICAL SIGNIFICANCE:

Being part of cardiac panel enzyme (i.e. CK/DPK, CK-MB, GOT/AST, LDH AND HBDH) quantitative determination of LDH is a significant parameter at the onset of CHD and equally useful in following progress status of the patients.

SPECIMEN COLLECTION AND STORAGE:

- * Fresh, clear, unhemolysed serum is essential.

PRECAUTION:

- * Estrom LDH reagent is for In Vitro diagnostic use only.

REAGENTS

All the reagents are to be stored at 2-8° C

	No. of Bottles
	12 X 1.1 ml
Reagent 1 (Substrate)	12
Reagent 2 (Buffer)	1

REAGENT RECONSTITUTION:

A) 12 x 1.1 ml: One tablet / vial of Reagent 1 (Substrate) is to be dissolved in 1.1 ml of Reagent 2 (Buffer). Mix gently. Keep for 5 minutes before use. Reconstituted reagent may be stored at 2-8°C, protected from light when not in use.

REAGENT STORAGE & STABILITY:

All the reagents are stable up to expiry date stated on the label when stored at 2-8°C.
Working reagent is stable at 2-8°C for 5 days.

GENERAL INSTRUMENT PARAMETERS:

Reaction Type	: Kinetic
Slope of Reaction	: Increasing
Wavelength	: 340 nm
Flowcell Temperature	: 37° C
Reagent Volume	: 1.0 ml
Sample Volume	: 50 o l (0.05ml)
Delay Time	: 60 seconds
Interval	: 30 seconds
No. of readings	: 3
Factor	: 3376
Units	: IU/L
Zero Setting	: Distilled water
Path length	: 1.0 cm

PROCEDURE:

Allow the sample and reagent to attain room temperature prior to use

Dispense into test tube	Test
Working Reagent	1.0 ml
Sample	50 o j

Mix and aspirate. Read absorbance after a delay of 60 seconds at an interval of 30 seconds i.e, at 60 90 and 120 seconds at 340 nm. Obtain the mean change in absorbance per minute (Φ A/min)

LINEARITY:

This method is linear for LDH activity up to 2000 IU/L. For sample values exceeding the linearity limit, dilute the sample suitably with normal saline and repeat the assay. Apply proper dilution factor while calculation.

CALCULATIONS:

$$\begin{aligned} \text{LDH activity} &= \Phi \text{ A/min} \times \text{factor} \\ \text{Factor (F)} &= 3376 \end{aligned}$$

REFERENCE VALUE:

Normal value : 114-240 IU/L at 37° C (Adults)

It is recommended that each laboratory establish its own reference values.

BIBLIOGRAPHY:

- * Lum, G. Gambino, S.R. Am. J. Clin Pathod. 61 (108) 1974.
- * Searey R.L. Diagnostic Biochemistry McGrane-Hill, New York, NT 1969.

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	Attention, see instructions for use		Consult Instructions For Use
	For in vitro diagnostic use only		Catalog #
	Store between 2-8°C		Lot Number
	Do not use if package is damaged		Date of Manufacturing
	Manufacturer		Use by