



Teco Diagnostics

Intended Use

For the quantitative determination of lactate dehydrogenase activity in human serum.

Principle

LDH catalyzes the oxidation of lactate to pyruvate in the presence of NAD, which is subsequently reduced to NADH. The rate of NADH formation at 340 nm is directly proportional to serum LDH-L activity.

Test:

LDH-L Reagent Set (Kinetic Procedure)(L535 – 60)

Number of Tests:

60 tests
10 x 6 mL

Format:

Powder

Method:

Kinetic

Testing Procedure:

Manual

Storage Temperature:

2 – 8°C

Reconstituted Stability:

14 days at 2 – 8°C
8 hours at 15– 30°C

Wavelength:

340 nm

Expected Values:

Males: 50 – 166 IU/L at 30°C
80 – 285 IU/L at 37°C
Females: 60 – 132 IU/L at 30°C
103 – 227 IU/L at 37°C

It is recommended that each laboratory establish its own range of expected values.

Linearity:

800 IU/L

Reagent Deterioration:

If the reagent blank before serum addition has an absorbance that exceeds 0.60 at 340 nm, the reagent may have deteriorated. Failure to obtain accurate results in the assay of control materials may indicate reagent deterioration.

Limitations of Procedure:

Oxalate, oxamates, and EDTA will inhibit LDH.

The procedure measures total lactic dehydrogenase irrespective of its tissue or organ of origin.

The reaction temperature must be maintained to within $\pm 0.1^\circ\text{C}$ during the assay.

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