BIOBASE

Lactate Dehydrogenase (LDH) Test Kit
(DGKC)

【NAME】

Lactate Dehydrogenase (LDH) Test Kit (DGKC)

【INTEND USE】

This reagent is intended for the in vitro quantitative determination of Lactate Dehydrogenase (LDH) in human serum or plasma. LDH diagnosis has important clinical significance. LDH increased: seen in myocardial infarction, hepatitis, pulmonary infarction, leukemia. Determination of lactate dehydrogenase commonly used in the diagnosis of myocardial infarction, pulmonary infarction, viral hepatitis, cirrhosis, kidney disease, cancer and other diseases.

【METHODOLOGY】

$$\text{L - lactic acid} + NAD^+ \xrightarrow{\text{LDH}} \text{Pyruvic acid} + NADH + H^+$$

【STABILITY AND STORAGE】

Unopened, avoid light preservation in 2 ~ 8 ℃, valid for 12 months;
Opened, avoid light preservation in 2 ~ 8 ℃, valid for 1 month.
Reagent is not allowed frozen.

【SPECIMEN COLLECTION AND HANDLING】

It is best to fresh Serum;
Within 3 days of inactivation: store at 15 ~ 25 ℃: < 20%.
In sample the TG≤2000mg/dl,TBIL≤40mg/dl,VitC≤30mg/dl,HGB≤50mg/dl was not observed clearly disturbance.

【APPLICABLE INSTRUMENT】

Fully automatic biochemical analyzer.

【SYSTEM PARAMETERS】

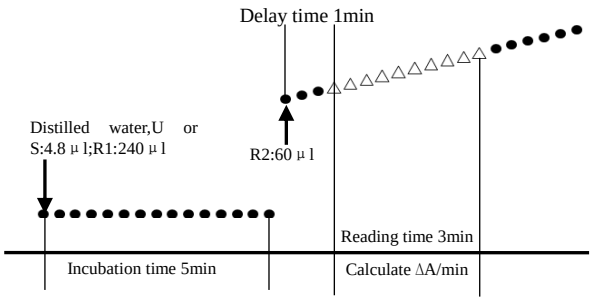
The following system parameters are recommended. Individual instrument applications are available upon request from the Technical Support Group

Temperature	37° C
Cuvette light path	1.0cm
Primary Wavelength	340nm
Secondary Wavelength	405nm
Assay Type	Rate Method
Direction	Increase
Sample : Reagent1 : Reagent2Ratio	2:100:25:
eg : Sample Vol.	4.8 μL
Reagent1 Vol.	240 μL
Reagent2 Vol.	60 μL
Linearity	0～12.9mmol/L
Testing	Deducting the reagent blank

OPERATIONG STEPS】

Double reagent operation:

R1:Reagent 1 R2:Reagent 2 S:Calibrator U:Sample



【CALCULATION】

Use the Calibrator

$$\text{Sample Concentration} = \frac{\text{Sample } \Delta\text{Abs/min}}{\text{Calibrator } \Delta\text{Abs/min}} \times \text{Calibrator Concentration}$$

【REFERENCE RANGE】

	Female(U/L)	Male(U/L)
Adult	135-215	135～225
1-3 age	165-395	155-345
4-9 age	135-345	155-345
7-9 age	140-280	145-300
10-12 age	120-260	120-325
13-15 age	100-275	120-290
16-18 age	105-230	105-235

By clinical trials, choose no less than 100 women or men blood specimens, tested by automatic biochemical analyzer, and then processing the testing value with statistical method, calculating out the reference range.

Recommendation: The laboratory set up its own reference range!

【THE LIMITATION OF TEST RESULTS】

LDH testing is just one of the standard that clinicist diagnose the patient. Clinical physicians should according to patients' bodies, history and other diagnostic program, to get comprehensive judgment.

【THE INTERPRETATION OF TEST RESULTS】

Human error, the processing of specimen, analysis instrument deviation, etc. all can affect the measurement result;When one sample deviates from the expected value too far, need to be tested again.

【PERFORMANCE INDEX】

1.Reagent blank absorbance≤0.6,（340nm,lcm optical path).
2.Precision: repeatability CV≤5%;batch variations R≤5%.
3.Accuracy: relative deviation ≤10%.
4.Linearity range: 0～1000U/L, r≥0.990.
5. Stability: All package reagent, unopened and avoid light, preservation in 2~8 ℃, stable 12 months, once opened, avoid light, preservation in 2~8 ℃,stable 30 days.

【ATTENTION】

1.Reagent contains sodium azide (toxic) preservatives, avoid contact with skin and mucous membrane.If necessary preventive measures should be taken use of reagents, reagent contact with skin and mucous membrane, please rinse with water, please go to a doctor if necessary.
2.The maximum linearity is 1000U/L.If testing results is upper limit, dilute with 0.9% sodium chloride solution before test, results multiplied by the dilution ratio.
3.Liquid waste disposal: Suggest follow local regulations
4.Different batches reagents cannot mix, when replacing reagents batch number, please calibration again.

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