

LAB

Lactate Liquid

Ready to use formulation



SENTINEL
DIAGNOSTICS

Lactate Liquid

Dual-reagent method for the enzymatic determination of Lactate in human plasma samples

Features and Advantages

- Liquid and ready to use reagents
- Linearity up to 15 mmol/L
- Sensitivity: 0.06 mmol/L
- 60 days on-board reagent stability
- 60 days on-board calibration stability
- Excellent correlation with other similar methods available on the market
- Reagents filled in Universal Vials suitable for AU series, ADVIA series, Roche Modular, Hitachi 917, DIRUI series, Mindray BS-800

Precision		
Mean (mmol/L)	Total (CV%)	Repeatability (CV%)
1.31	3.4	3.1
2.06	2.3	1.7
5.48	2.2	1.6

Ref.	Description	Kit Size
1728601	Lactate Liquid	R1: 2 x 25 mL R2: 2 x 5 mL
16550	Clin Chem Cal	4 x 3 mL
16150	Clin Chem Control 1	6 x 5 mL
16250	Clin Chem Control 2	6 x 5 mL

Summary

Lactic acid, present in blood as lactate ion, is an intermediary product of carbohydrate metabolism and is derived mainly from the brain, muscle cells and erythrocytes. Blood lactate levels are measured primarily in cases of suspected tissue hypoxia, shock and uncontrolled diabetes. Lactic acidosis, attributed to the overproduction of lactic acid by hypoxic tissues, is a physiological condition characterized by low pH in body tissues and blood accompanied by the build-up of lactate levels.

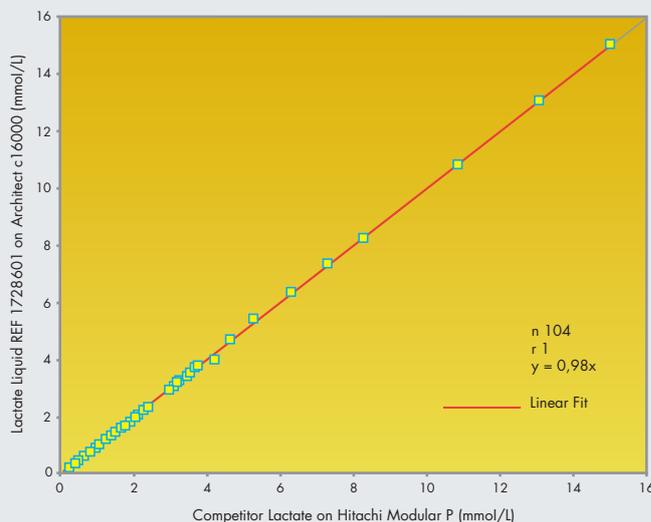
There are two types of lactic acidosis, A and B. Type A occurs under anaerobic conditions. This includes myocardial infarction, severe congestive heart failure, pulmonary edema and blood loss. Shock is the most widely recognized cause of lactic acidosis. Type B occurs when there is normal circulation and oxygenation of blood. It is associated with systemic disorders such as diabetes mellitus, severe infection, leukemia, liver and renal disease. It can also be caused by drugs and poisons.

Principle

Lactate is converted to pyruvate by lactate oxidase (LOD). The hydrogen peroxide produced in this reaction is then used by peroxidase to generate a colored dye.

The increase of absorbance at 660nm is proportional to the L-lactate concentration.

Method comparison



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