

Human Lactic Acid ELISA Kit | LA elisa kit

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CATALOG #
AAA84208

REACTIVITY
Human

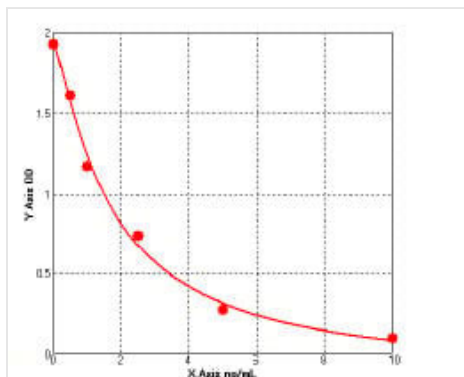
PRODUCT SYNONYMS

Lactic Acid; Human Lactic Acid ELISA Kit; Lactic acid; lactate; blood lactic acid; LA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Lactic Acid. No significant cross-reactivity or interference between Lactic Acid and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between Lactic Acid and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 mmol/L
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LA elisa kit	Intended Uses: This Lactic Acid ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human Lactic Acid. This ELISA kit for research use only! Principle of the Assay: Lactic Acid ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-Lactic Acid antibody and an Lactic Acid-HRP conjugate. The assay sample and buffer are incubated together with Lactic Acid-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the Lactic Acid concentration since Lactic Acid from samples and Lactic Acid-HRP conjugate compete for the anti-Lactic Acid antibody binding site. Since the number of sites is limited, as more sites are occupied by Lactic Acid from the sample, fewer sites are left to bind Lactic Acid-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The Lactic Acid concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	359835596
Molecular Weight	104,585 Da
NCBI Official Full Name	Lactic acid dehydrogenase
UniProt Protein Name	Lactic acid dehydrogenase
UniProt Entry Name	G8SD27_ACTS5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/la-human-elisa-kits/lactic-acid/84208>