

Human Serotonin ELISA Kit

Serotonin ELISA

CATALOG #
AAA14198

REACTIVITY
Human

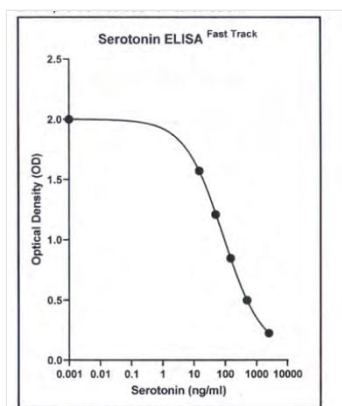
PRODUCT SYNONYMS

Serotonin; Serotonin ELISA; Serotonin elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Urine and serum
Preparation and Storage	2 - 8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Serotonin elisa kit	Background: Serotonin (5-hydroxytryptamine) is an intermediate product of tryptophan metabolism [1], a well studied neurotransmitter, and may also act as a peripheral hormone [2]. Synthesis occurs mainly in enterochromaffin cells (ec-cells) of the gastrointestinal tract and in neurons [1, 3]. It is present in high concentrations in ec-cells of the intestine, serotonergic neurons of the brain, and platelets [1, 3 - 6]. Serotonin is mainly degraded to 5-hydroxyindole acetic acid (5-HIAA) or melatonin [1, 7] and can be excreted in the urine [8]. In the bloodstream, the vast majority of serotonin is found in platelets [9] and can be readily detected in serum. Principle of the Assay: Enzyme Immunoassay for the quantitative determination of serotonin in urine and serum. The quantitative determination of serotonin follows the basic principles of the enzyme immunoassay. In the first step, serotonin is quantitatively acylated. The subsequent competitive ELISA kit uses the microtiter plate format. The antigen is bound to the solid phase of the microtiter plate. The acylated standards, controls and samples and the solid phase bound analyte compete for a fixed number of antiserum binding sites. After the system is in equilibrium, free antigen and free antigen-antiserum complexes are removed by washing. The antibody bound to the solid phase is detected by an anti-rabbit IgG-peroxidase conjugate using TMB as a substrate. The reaction is monitored at 450 nm. Quantification of unknown samples is achieved by comparing their absorbance with a reference curve prepared with known standard concentrations. Manual processing is recommended. The use of automatic laboratory equipment is the responsibility of the user. This product is not intended to clinical diagnoses. Intended Uses: Enzyme Immunoassay for the quantitative determination of serotonin in urine and serum. The quantitative determination of serotonin follows the basic principles of the enzyme immunoassay. In the first step, serotonin is quantitatively acylated. The subsequent competitive ELISA kit uses the microtiter plate format. The antigen is bound to the solid phase of the microtiter plate. The acylated standards, controls and samples and the solid phase bound analyte compete for a fixed number of antiserum binding sites. After the system is in equilibrium, free antigen and free antigen-antiserum complexes are removed by washing. The antibody bound to the solid phase is detected by an anti-rabbit IgG-peroxidase conjugate using TMB as a substrate. The reaction is monitored at 450 nm. Quantification of unknown samples is achieved by comparing their absorbance with a reference curve prepared with known standard concentrations. Manual processing is recommended. The use of automatic laboratory equipment is the responsibility of the user. This product is not intended to clinical diagnoses.
Product Categories/Family for Serotonin elisa kit	Brain Disorders & Neuroscience ; Biogenic Amines & Neurology ; Assay Categories

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://www.aaabiotech.com/human-elisa-kits/serotonin/14198>