



Technical Data

S1001-01H

**Serotonin, Human (5-Hydroxytryptamine,
5HT, 5-HT, 5-HT5A, 5-HT-5A) BioAssay™
ELISA Kit**

1Kit

Kits and Assays

Storage: 4°C Shipping: Blue Ice

Sample Type:

Serum, plasma, plateletes, urine

Intended Use:

Enzyme immunoassay for the quantitative determination of Serotonin in human serum, plasma, platelets, urine. Further the test can be used for research of tissue homogenates and cell culture supernatants.

Test Principle:

The sample preparation (derivatization of serotonin to N-acetylserotonin) is part of the sample dilution and is achieved by incubation of the respective sample with the Acylation Reagent. The assay procedure follows the basic principle of competitive ELISA whereby there is competition between a biotinylated and a non-biotinylated antigen for a fixed number of antibody binding sites. The amount of biotinylated antigen bound to the antibody is inversely proportional to the analyte concentration of the sample. When the system is in equilibrium, the free biotinylated antigen is removed by a washing step and the antibody bound biotinylated antigen is determined by use of anti-biotin alkaline phosphatase as marker and p-nitrophenyl phosphate as substrate. Quantification of unknowns is achieved by comparing the enzymatic activity of unknowns with a response curve prepared by using known standards.

Kit Components:

S1001-01H1: Microtiter Plate, 1x96 wells
 S1001-01H2: Serotonin Pab 1x8ml
 S1001-01H3: Serotonin (Biotin) Pab, 1x8ml
 S1001-01H4: Streptavidin (AP), 100x, 1x300ul
 S1001-01H5: Standard, 0ng/ml 1x1ml
 S1001-01H6: Standard, 0.08ng/ml 1x1ml
 S1001-01H7: Standard, 0.24ng/ml 1x1ml
 S1001-01H8: Standard, 0.73ng/ml 1x1ml
 S1001-01H9: Standard, 2.2ng/ml 1x1ml
 S1001-01H10: Standard, 6.6ng/ml 1x1ml
 S1001-01H11: Standard, 19.8ng/ml 1x1ml
 S1001-01H12: Control 1, 54-127ng/ml, 1x500ul
 S1001-01H13: Control 2, 183-340ng/ml, 1x500ul
 S1001-01H14: Acylation Reagent, 1x3ml
 S1001-01H15: Assay Buffer, 10x, 1x50ml
 S1001-01H16: Wash Buffer, 20x, 2x50ml
 S1001-01H17: Substrate (PNPP), 2x13ml
 S1001-01H18: Stop Solution (1N NaOH), 1x15ml

Storage and Stability:

Store components at 4°C. Stable for 6 months. For maximum recovery of product, centrifuge the original vial prior to removing the cap.

Intended for research use only. Not for use in human, therapeutic, or diagnostic applications.

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