

SEROTONIN *ELISA* AND *RIA*

RESEARCH AND CLINICAL

ADVANTAGES

- Total assay times ivd kits under 2.5 hours
- Fast Track ELISA is easily automatable
- Standards in conformance with GLP
- No interference by medical drugs
- Wide standard ranges, convenient measurement of pathological samples without predilution
- Customer Service! – We use the kits we sell and we always offer a 24 hour turn-around on almost all technical questions
- Quality – produced according to DIN EN ISO 13485 and 9001

ANALYTICAL SPECIFICITY (Cross Reactivity) of the Serotonin ELISA FAST TRACK:

Substance	Cross Reactivity (%)
Tryptamine	0.05
Melatonin	0.08
5-Hydroxyindole acetic acid	< 0.014
Phenylalanine	< 0.014
Histidine	< 0.019
Tyramine	< 0.018
5-Hydroxytryptophane	< 0.014

KIT DETAILS *RIA* - TECHNICAL DATA

CAT NO.	PARAMETER	SAMPLE SIZE	STANDARDS	SENSIVITY	FORMAT
BA R-8900	Serotonin	25 µl serum, urine, platelets 100 µl CSF, PFP	0/15 - 2500 ng/ml	6.6 ng/ml	100 tubes

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SEROTONIN

PRINCIPLE OF THE ELISA

The competitive Serotonin ELISA kit uses the microtiter plate format. Serotonin is bound to the solid phase of the microtiter plate. Acylated serotonin and solid phase bound serotonin compete for a fixed number of antiserum binding sites. When the system is in equilibrium, free antigen and free antigen-antiserum complexes are removed by washing. The antibody bound to the solid phase serotonin is detected by anti-rabbit-peroxidase. The substrate TMB-peroxidase reaction is read at 450 nm. The amount of antibody bound to the solid phase serotonin is inversely

PRINCIPLE OF THE RIA

The assay procedure follows the basic principle of radioimmunoassays, involving competition between a radioactive and a non-radioactive antigen for a fixed number of antibody binding sites. The amount of 125 I-labelled antigen bound to the antibody is inversely proportional to the analyte concentration of the sample. When the system is in equilibrium, the antibody bound radioactivity is precipitated with a second antibody in the presence of polyethylene glycol. The precipitate is counted in a gamma counter. Quantification of unknown samples is

SEROTONIN ELISA FAST TRACK



Enzyme Immunoassay for the fast and quantitative determination of serotonin in urine, serum, and platelets.



Acylation in liquid phase. 96-well-acylation plate. 12 x 8 single break-apart well ELISA plate. 6 standards, 2 controls, ready for use.



BA E-8900: Acylation 15 min and ELISA 1h.
BA E-5900 (research ELISA): Overnight.



Urine, serum, and platelets (for research use any biological fluid may be used).



Radioimmunoassay for the fast and quantitative determination of serotonin in urine, serum, platelets, platelet-free plasma, and cerebrospinal fluid (CSF).



Acylation in liquid phase. 6 standards, 2 controls, ready for use. Double antibody technique.



Acylation 30 min and RIA 2h.



Serum, platelets, CSF, platelet-free plasma and urine.

KIT DETAILS ELISA – TECHNICAL DATA

CAT NO.	PARAMETER	SAMPLE SIZE	STANDARDS	SENSIVITY	FORMAT
BA E-8900	Serotonin	25 µl serum, urine, platelets	0/15 - 2500 ng/ml	6.2 ng/ml	96 wells
BA E-5900	Serotonin Research	1 - 100 µl; various biological fluids (tissue homogenates, cell cultures, CSF, platelet-free plasma)	0/0.015 - 2.5 ng/ml	5 pg/ml	96 wells Sample preparation 30 min and ELISA overnight