

SEROTONIN ELISA

Research and clinical

ESSENTIAL INFORMATION

Serotonin (5-hydroxytryptamine) is an intermediate product of tryptophan metabolism, a well-studied neurotransmitter, and may also act as a peripheral hormone. Synthesis occurs mainly in enterochromaffin cells (ec-cells) of the gastrointestinal tract and in neurons. It is present in high concentrations in ec-cells of the intestine, serotonergic neurons of the brain, and platelets. Serotonin is mainly degraded to 5-hydroxyindole acetic acid (5-HIAA) or melatonin and can be excreted in the urine. In the blood-stream, the vast majority of serotonin is found in platelets and can be readily detected in serum. Altered serotonin levels in serum and/or urine can indicate both physical and psychological dysfunction.

Serotonin balance may be impaired in serum and/or urine in a variety of conditions. For example, decreased serotonin levels have been demonstrated in depression, anxiety, and even pain sensitivity compared to unaffected subjects. Increased serotonin levels, on the other hand, have been reported in patients with serotonin-secreting neuroendocrine tumors, also called carcinoid tumors, or hepatocellular carcinomas.

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ADVANTAGES

- Total assay time IVD kit under 2.5 hours
- Fast Track ELISA is easily automatable
- Standards in conformance with GLP
- Excellent correlation to a highly sophisticated XLC-MS/MS method
- Wide standard ranges, convenient measurement of pathological samples without predilution
- Regular and successful participation in external quality assessment programs
- Customer Service! - We use the kits we sell, and we always offer a 24-hour turn-around on almost all technical questions



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