

# Serotonin ELISA kit - Serum, Urine, Platelets - Fast Track

Ref: BA-E-8900

This Serotonin (5-HT) ELISA kit is tailored for the rapid measurement of 5-hydroxytryptamine in serum, urine and platelets. Intended for *in vitro* diagnostics, this fast-track quantitative immunoassay enables the determination of serotonin levels in up to 40 samples within 75 minutes.

<b>Sample type</b>	25 µl serum, urine, platelets
<b>Samples/kit</b>	40 samples in duplicate
<b>Sensitivity</b>	5 ng/ml
<b>Range</b>	0 / 15 - 2 500 ng/ml
<b>Assay time</b>	Sample acylation (15 min), ELISA (1h)
<b>Species reactivity</b>	Reacts with all species
<b>Citations</b>	<u>3</u>

# Product information

---

## Product overview

<b>Product name</b>	Serotonin ELISA kit - Serum, Urine, Platelets - Fast Track
<b>Description</b>	<i>In vitro</i> diagnostics enzyme immunoassay (ELISA) for the fast determination of 5-hydroxytryptamine (5-HT, Serotonin) in serum, urine or platelets.
<b>Labels</b>	IVD, CE
<b>Format</b>	96-well plate
<b>Samples</b>	25 µl serum, urine, platelets
<b>Cross-species reactivity</b>	React with all species
<b>Standard range</b>	0 / 15 - 2 500 ng/ml
<b>Sensitivity</b>	5 ng/ml
<b>Specificity</b>	No significant cross-reactivity was observed with Serotonin analogs such as Tryptamine, Melatonin, 5-Hydroxyindole acetic acid, Phenylalanine, Histidine, Tyramine and 5-Hydroxytryptophan.
<b>Assay time</b>	1h15
<b>Storage</b>	Store at 2-8°C for up to 6 months.
<b>Datasheets</b>	<a href="#">Instructions for use</a> , <a href="#">Material safety datasheet</a>

# Protocols

---

<b>Sample collection &amp; storage</b>	<p><u>Serum</u>: Do not use haemolytic and especially lipemic samples. Storage: up to 6 hours at 2 - 8°C; for longer periods (up to 6 months) at - 20°C.</p> <p><u>Plasma</u>: EDTA-Plasma samples only. Do not use haemolytic or lipemic samples. Storage: up to 6 hours at 2 - 8°C; for longer periods (up to 6 months) at - 20°C.</p> <p><u>Urine</u>: Spontaneous or 24-hours urine, collected in a bottle containing 10-15 mL of 6 M HCl. Storage: for longer periods (up to 6 months) at -20°C.</p>
<b>Sample preparation</b>	Sample acylation (15min)
<b>ELISA</b>	Serotonin antiserum incubation (30min), revelation and read steps (30min).
<b>Detailed protocol</b>	<a href="#">Download instructions for use</a>

---

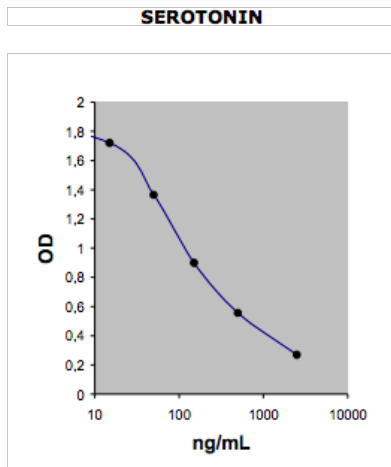
# References

---

- **Product citation:** [Ishii et al. Dietary Supplementation with Lysine and Threonine Modulates the Performance and Plasma Metabolites of Broiler Chicken. Animals \(Basel\). 2019 August 26](#)
- **Product citation:** [Lee et al. The effects of acupuncture on serotonin metabolism. European Journal of Integrative Medicine · 2016 Jun 8\(4\)](#)
- **Sanner JE, Frazier L, Udtha M. Effects of delayed laboratory processing on platelet serotonin levels. Biol Res Nurs. 2013 Jan;15(1):13-6.**
- **Ciuclan L et al. A novel murine model of severe pulmonary arterial hypertension. Am J Respir Crit Care Med. 2011 Nov 15;184(10):1171-82.**
- **El-Ansary AK, Bacha AB, Ayahdi LY. Relationship between chronic lead toxicity and plasma neurotransmitters in autistic patients from Saudi Arabia. Clin Biochem. 2011 Sep;44(13):1116-20.**

# Product pictures

---



## Fast 5-HT ELISA: Standard curve

Standard curve - to be generated every time the assay is performed.



## Fast Serotonin (5-HT) ELISA

Serotonin (5-hydroxytryptamine) is a monoamine neurotransmitter derived from tryptophan metabolism. Produced by enterochromaffin cells in the gut and serotonergic neurons in the brain, serotonin is stored and transported by platelets in the blood. It is then excreted in urine directly, or in the form of 5-HIAA, its main metabolite. Altered serotonin levels in serum, urine and platelets are associated with carcinoid tumors (high concentrations) and CNS disorders such as autism, depression and suicidal schizophrenia (low concentrations).

---

# Contact information

**IMMUSMOL SAS**  
229 Cours de l'Argonne  
33000 Bordeaux - France  
Tel: +33 (0)5 6431 1170  
[www.immusmol.com](http://www.immusmol.com)

**To order, review, ask for technical support, visit product page at:**

<https://www.immusmol.com/serotonin-5-ht-elisa-kit-serum-urine-platelets-fast-track-5-hydroxytryptamine.html>