

L-Tryptophan ELISA kit

Any sample | High Sensitivity

Ref: BA-E-2700

This Tryptophan ELISA kit enables the quantitative measurement of L-Tryptophan in biological fluids and cell culture supernatants. Intended for *in vitro* diagnostics and research applications, the test comes in 96-well plate format, allowing the screening of large experimental series within short lead times.

Sample type	Biological fluids (urine, plasma, serum, ...) and cell culture supernatant
Capacity	96 tests
Sensitivity	< 1.2µg/ml
Range	2.5 - 250µg/ml
Assay time	2h30 sample preparation and ELISA overnight
Reactivity	Reacts with all species
References	Cited in 57 papers

INFORMATIONS

Product overview

Product name	Tryptophan ELISA kit
Description	<i>In vitro</i> diagnostics / Research enzyme immunoassay (ELISA) for the quantitative determination of L-Tryptophan in biological fluids (urine, plasma, serum samples, ...) and cell culture supernatants
Labels	IVD (EU only) or RUO, CE
Format	96-well plate
Samples	urine, plasma, serum, cell culture supernatant
Sample volume	20µL
Reactivity	Reacts with all species
Standard range	2.5 – 250µg/ml
Sensitivity	< 1.2µg/ml
Specificity	No significant cross-reactivity was observed with L-Tryptophan analogs such as 5-Hydroxy-L-tryptophan, Tryptamine, 5-Methoxytryptophan, 5-Hydroxytryptamine, N-acetyl-5-hydroxytryptamine
Assay time	Sample preparation 2.5 hours and ELISA overnight
Storage	Store at 2-8°C for to 6 months
Datasheets	Instructions for use , Material safety datasheet

PROTOCOLS

Sample collection & storage

Urine: spontaneous or 24-hour urine collected in bottle with 10-15 mL of 6 M HCl, stored at -20°C for long periods (up to 6 months)

Plasma/Serum: EDTA-, Heparin- or Citrate- samples stored at 2-8°C for up to 48h or -20°C for longer period (up to 6 months). Do not use haemolytic or lipemic samples

Sample preparation

Sample precipitation (15 min) and derivatization (2h15)

ELISA

Tryptophan antiserum overnight incubation, revelation and read steps (1h)

Detailed protocol

IVD: [Download instructions for use](#)

RUO: [Download instructions for use](#)

REFERENCES

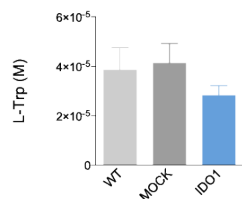
Product citations

Product pictures



Tryptophan ELISA kit

Determination of L-Tryptophan levels in CT26 cell cultures by ELISA



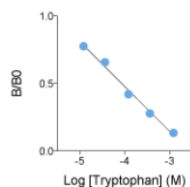
Murine CT26 tumor cell line was stably transfected with either empty vector (Mock) or vector containing cDNA encoding for indoleamine 2,3 dioxygenase (IDO1). Cells were cultured for 48 hours and Tryptophan was measured using the Tryptophan ELISA kit. As expected, Tryptophan level was significantly lower in IDO1-proficient CT26 cells than in mock or parental (WT) CT26 cell lines.



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Tryptophan ELISA - typical standard curve

Example of standard curve obtained with the L-Tryptophan ELISA Kit. In this competitive ELISA, optical density is invertly correlated with Tryptophan levels. Only serves as example - do not use for calculation.

Contact information

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

<https://www.immusmol.com/shop/l-tryptophan-elisa-kit/>