

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.

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| Sample type | Biological fluids (urine, plasma, serum, ...) and cell culture supernatant |
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| Capacity | 96 tests |
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| Sensitivity | < 1.2µg/ml |
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| Range | 2.5 - 250µg/ml |
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| Assay time | 2h30 sample preparation and ELISA overnight |
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| Reactivity | Reacts with all species |
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| References | Cited in 54 papers |
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INFORMATIONS

Product overview

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| 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, 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

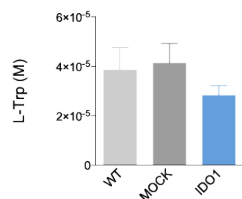
Product citation

Product pictures



Tryptophan ELISA kit

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



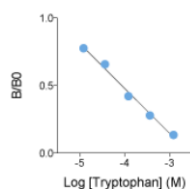
Murine CT26 tumor cell line was stably transfected with either empty vector (Mock) or vector containing cDNA encoding for indoleamine 2,3 dioxygenase (IDO1). Cells were cultured for 48 hours and Tryptophan was measured using the Tryptophan ELISA kit. As expected, Tryptophan level was significantly lower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



Tryptophan ELISA kit



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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 inversely 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/>