Citrulline ELISA kit

Highly Sensitive – Plasma samples

Ref: IS I-1500R

The Citrulline ELISA kit allows easy and accurate quantification of L-citrulline in plasma samples. Plasma citrulline (CIT) can serve as a biomarker to assess intestinal health (enterocyte function) and disorders related to the urea cycle and nitric oxide biosynthesis (see our L-Arginine ELISA kit). With a minimal sample volume of 20 µL and a detection limit of 1.47 µM, the kit enables working with samples of human and animal origin.

Sample type	20µl plasma or serum
Samples/kit	40 samples in duplicate
Sensitivity	1,47 µM plasma
Range	6,4 – 250 µM
Assay time	Sample extraction (2.5h), incubation (overnight), ELISA (1h)
Reactivity	Reacts with all species

INFORMATIONS

Product overview

Product name	L-Citrulline ELISA
Description	*In vitro* diagnostics & Research enzyme immunoassay (ELISA) for the sensitive determination of L-Citrulline levels in plasma samples
Labels	RUO
Format	96-well plate
Samples	20µl plasma
Reactivity	Reacts with all species
Standard range	6,4 – 250 µM
Sensitivity	1,47 µM
Specificity	No significant cross-reactivity was observed with L-Critulline analogs (see Instructions for use)
Assay time	Sample extraction (2.5h), incubation (overnight), ELISA (1h)
Storage	Store at 2-8°C for up to 6 months
Datasheets	Instructions for use, Material safety datasheet

PROTOCOLS

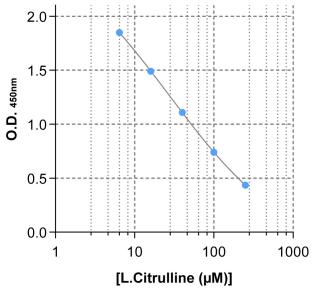
Sample collection & storage	EDTA or Heparin plasma samples only. Do not use haemolytic, icteric or lipemic samples. Storage: up to 24 hours at 2 – 8°C; for longer periods (up to 3 months) at – 20°C
Sample preparation	Sample preparation, precipitation, Derivatization (2,5h)
ELISA	Citrulline antiserum incubation (overnight), revelation and read steps (1h)
Detailed protocol	Download instuctions for use

REFERENCES

No citation yet

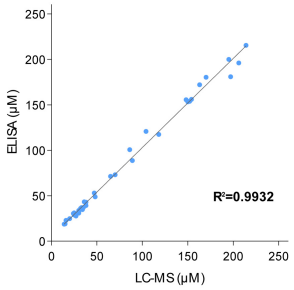
Product pictures

Citrulline ELISA kit for plasma samples



Typical standard curve of Citrulline ELISA

Typical standard curve obtained with the CIT ELISA kit. In this competitive enzyme immunoassay, optical density is inversely correlated with CIT levels within a linear range of 6,4 – 250 µM. (example data - do not use for calculation).



Cross-validation of L-Citrulline ELISA and LC/MS data in human plasma samples

CIT was quantified in plasma samples from 40 human subjects either using IS I-1500R ELISA kit or by liquid chromatography–mass spectrometry (LC/MS). Correlation coefficient of 0,9932 confirms the accuracy of the immunoassay.

Contact information

Immusmol
229 Cours de l'Argonne
33 000 Bordeaux - France
Tel: +33 (0) 5 6431 1170
www.immusmol.com

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

https://www.immusmol.com/shop/citrulline-elisa-kit-highly-sensitive-plasma/