

Citrulline-to-Arginine ratio ELISA pack – Serum, Plasma

Ref: ISE-0510R

Measuring the Citrulline-to-Arginine ratio is indicative of nitric oxide synthase (NOS) activity, which converts Arginine into Citrulline and Nitric Oxide (NO). A decreased plasma CIT-to-ARG ratio thus suggests high NO production, and may serve as a biomarker in metabolic and cardiovascular conditions.

Sample type 20 µl serum or plasma samples

Kit capacity 2 x 96 tests

Sensitivity ARG: 2.1µM CIT: 1.47µM

Range ARG: 5.12 - 200µM CIT: 6.4 - 250µM

Reactivity Reacts with all species

INFORMATIONS

Product overview

Product name	Citrulline-to-Arginine ELISA pack
Description	Two enzyme immunoassays (ELISA) allowing the quantitative determination of L-Citrulline and L-Arginine in plasma/serum samples. For research use only
Labels	RUO
Format	2 x 96-well plate
Samples	Serum, Plasma
Minimum sample volume	20µL
Reactivity	Reacts with all species
Standard range	ARG: 5.12 - 200µM CIT: 6.4 - 250µM
Sensitivity	ARG: 2.1µM CIT: 1.47µM
Specificity	No significant cross-reactivity was observed with analogs for each kit. See product pages for Arginine ELISA and Citrulline ELISA
Storage	Store at 2-8°C for to 6 months
Datasheets	Instructions for use - Arg kit , Instructions for use - CIT kit Safety datasheet - Arg kit , Safety datasheet CIT kit

PROTOCOLS

Sample collection & storage

Plasma: Use EDTA as anticoagulant

Serum: Do not use lipemic, haemolytic samples, as well as samples containing precipitates or fibrin strands. Store samples at 2-8°C for up to 48h or -20°C for longer period (up to 6 months)

Sample preparation

Sample preparation (3 hours)

ELISA

Antisera overnight incubation, revelation and read steps (1h)

Detailed protocol

[Instructions for use - Arg kit](#), [Instructions for use - CIT kit](#)

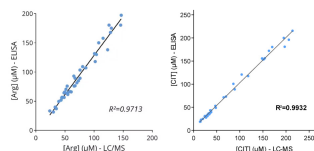
REFERENCES

Not yet cited

Product pictures



Citrulline to Arginine ratio ELISA pack



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

Contact information

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

<https://www.immusmol.com/shop/citrulline-to-arginine-ratio-elisa-pack-serum-plasma/>