

# 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

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**Kit capacity** 2 x 96 tests

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**Sensitivity** ARG: 2.1µM CIT: 1.47µM

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

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**Reactivity** Reacts with all species

## INFORMATIONS

### Product overview

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

## PROTOCOLS

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### 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)

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### Sample preparation

Sample preparation (3 hours)

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### ELISA

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

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### Detailed protocol

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

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## REFERENCES

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### Not yet cited

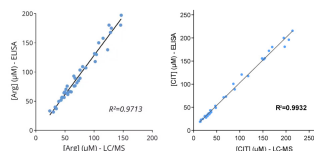
## Product pictures

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**Citrulline to Arginine ratio ELISA pack**

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

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## 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/>