

## ARG83433 Ferrous Iron Assay Kit

Package: 96 wells

Store at: 4°C

### Summary

Product Description	ARG83433 Ferrous Iron Assay Kit can be used to measure Ferrous Iron in serum, plasma, urine, saliva, tissue extracts, cell lysate and other biological fluids.
Tested Reactivity	Other
Tested Application	FuncSt
Target Name	Ferrous Iron
Conjugation Note	Read at 510 nm
Sensitivity	2 µmol/l
Sample Type	Serum, plasma, urine, saliva, tissue extracts, cell lysate and other biological fluids.
Standard Range	5 µmol/l - 500 µmol/l
Sample Volume	100 µl
Alternate Names	Fe <sup>2+</sup>

### Application Instructions

Assay Time	1 hr
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### Properties

Form	96 well
Storage instruction	Store the kit at 4°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Background	Ferrous iron (Fe <sup>2+</sup> ) loses an electron during conversion to the ferric (Fe <sup>3+</sup> ) state. This is an important component of the toxicity of ferrous iron. A similar reaction also occurs during the spontaneous oxidation of haemoglobin to methaemoglobin. It is for this reason that large quantities of SOD, catalase and other protective agents are present in the young red blood cell. Their depletion may well determine the life span of the cell. Apart from ferrous iron acting as an electron donor, it is a catalyst in the Fenton reaction.
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