

# Metallo Assay LS

**Now, the trace metals can be measured by microplate reader!**

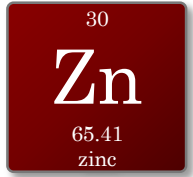
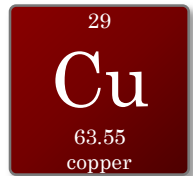
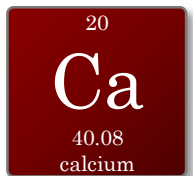
## Features

- Using microplate reader for assay, no need to use Atomic Absorption Spectrometry or ICP-OES Optical Emission Spectrometry, which have been commonly used so far.
- High correlation** with the result of Atomic Absorption Spectrometry and ICP-OES.
- High throughput measurement by **using microplate reader**.
- All animal species samples can be measured.
- You can get assay result just in **10 minutes** !
- 1 point calibration - do not need multiple point measurement to make standard curve ( $r^2=0.9999$ ).
- Kit does not contain any hazardous components like cyanide or azide as preservative.
- Samples : Serum, Plasma, Urine, Saliva, Cell lysate, Tissue extract, Hair extract, Water, etc.

## Applications

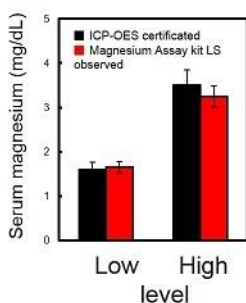
- Metallomics research
- Trace metal research as effector of enzyme / transcription activity
- Quantification of heavy metal accumulated in body
- Quantification of trace metal for drug discovery support research
- Research of relation between plant growth factor and trace metal
- Research for metabolism / kinetics mechanism of trace metal in the cell
- Trace metal research as trigger of reactive oxygen species (ROS)
- Research of relation between trace metal metabolism / dynamic derangement and disease
- Research of trace metal as a cofactor of antioxidant enzyme

...and more !



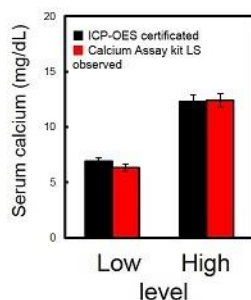
## Assay Examples

Magnesium Assay kit LS  
(#MG01ME)



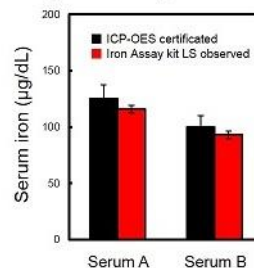
Accuracy of direct assay in various level of serum sample

Calcium Assay kit LS  
(#CA02ME/01ME,#CA30ME/31ME)



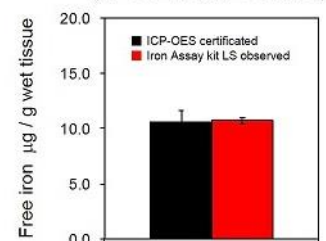
Accuracy of direct assay in various level of serum sample

Iron Assay kit LS  
(#FE02ME,#FE31ME)



Accuracy of direct assay in various level of serum sample

Iron Assay kit LS  
(#FE02ME,#FE31ME)



Accuracy of direct assay in sample extracted from tissue by 5% TCA

# Line Up



Element	Assay principle	Range of wavelength	Assay range	Catalog #	tests/kit
Target		Main wavelength			
<b>Iron</b> free iron (Fe <sup>2+</sup> and Fe <sup>3+</sup> )	Nitroso-PSAP	740 - 760 nm	10 - 1,000 µg/dL	FE02ME	200 tests
		750 nm			
<b>Iron</b> free iron (Fe <sup>2+</sup> and Fe <sup>3+</sup> )	Ferrozine	540 - 580 nm	5 - 1,000 µg/dL	FE31ME	200 tests
		560 nm			
<b>Copper</b> Copper (Cu <sup>2+</sup> and Cu <sup>+</sup> )	3,5-DiBr-PAESA	570 - 590 nm	3 - 400 µg/dL	CU03ME	100 tests
		580 nm		CU04ME	200 tests
<b>Zinc</b> Zinc (Zn <sup>2+</sup> )	5-Br-PAPS	550 - 580 nm	4 - 1,000 µg/dL	ZN01ME	50 tests
		560 nm		ZN02ME	100 tests
<b>Magnesium</b> Magnesium (Mg)	Xylidyl Blue- I	-	0.2 - 5.0 mg/dL	MG01ME	200 tests
		660 nm			
<b>Calcium</b> Calcium (Ca)	Chlorophosphonazo-III	680 - 700 nm	0.2 - 30 mg/dL	CA02ME	250 tests
		690 nm		CA01ME	500 tests
<b>Calcium</b> Calcium (Ca)	O-Cresolphtalein	560 - 590 nm	0.2 - 30 mg/dL	CA30ME	250 tests
		570 nm		CA31ME	500 tests

## Product Information



[ Manufacturer : AKJ ]

	Product Name	Size	Catalog #	Storage
<b>Fe</b>	Iron Assay Kit LS - Nitroso-PSAP method	200 tests	FE02ME	4°C
	Iron Assay Kit LS - Ferrozine method	200 tests	FE31ME	
<b>Cu</b>	Copper Assay Kit LS - 3,5-DiBr-PAESA method	100 tests	CU03ME	
		200 tests	CU04ME	
<b>Zn</b>	Zinc Assay Kit LS - 5-Br-PAPS method	50 tests	ZN01ME	
		100 tests	ZN02ME	
<b>Mg</b>	Magnesium Assay Kit LS - Xylidyl Blue- I method	200 tests	MG01ME	
<b>Ca</b>	Calcium Assay Kit LS - Chlorophosphonazo-III method	250 tests	CA02ME	
		500 tests	CA01ME	
	Calcium Assay Kit LS - O-Cresolphtalein method	250 tests	CA30ME	
		500 tests	CA31ME	

NOTE

※ Numbers after "\*" represents product code.  
 ※ All products here are research use only, not for diagnostic use.  
 ※ Specs might be changed for improvement without notice.

※ Company name and product name are trademark or registered mark.  
 ※ Please contact your local distributors for orders, quote request and inquiry.

Your Local Distributor



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