

## ARG80816 Vitamin B12 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG80816 Vitamin B12 ELISA Kit is a Enzyme Immunoassay kit for the quantification of Vitamin B12 in food (extraction, dilution).
Tested Reactivity	Other
Tested Application	ELISA
Target Name	Vitamin B12
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	0.3 ng/ml
Sample Type	Food (extraction, dilution).
Standard Range	0.4 - 40 ng/ml
Sample Volume	50 µl

### Application Instructions

Assay Time	1 h (RT/shaker), 20 min (RT/dark)
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### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°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

Gene Full Name	Vitamin B12
Background	<p>Vitamin B12 as a trace element belongs to the biologically important chelate formers. The basic unit consists of a corrin ring with cobalt as a central atom. Cobalt is sixfold coordinated by four nitrogen atoms, one cyanide and a dimethylbenzimidazol group. Vitamin B12 forms a stable complex, which is absorbed in the lower part of the small intestine, with the so-called intrinsic factor present in the gastric juice. A lack of vitamin B12 can lead among other things to pernicious anemia. This disease is not generated by an insufficient supply of vitamin B12, but by the absence of intrinsic factor. A pernicious anemia can be treated by a high dosage of vitamin B12.</p> <p>The existing detection procedures are mainly microbiological methods, but also HPLC and thin-layer chromatography, all of which are associated with a high amount of time and instrumentation.</p> <p>With the present test kit it is possible, to determine vitamin B12 quantitatively in vitaminated food in a significantly faster way (2.5 to 4 hours inclusive sample pretreatment) compared with a conventional</p>

microbiological assay (24 to 48 hours).

## Highlight

Related products:

[Vitamin B12 antibodies:](#) [Vitamin B12 ELISA Kits:](#)

New ELISA data calculation tool:

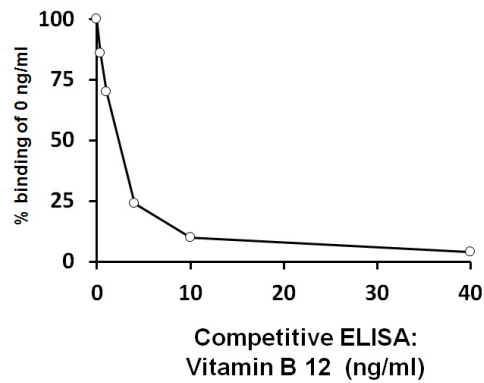
[Simplify the ELISA analysis by GainData](#)

## Research Area

Cell Biology and Cellular Response kit; Metabolism kit; Signaling Transduction kit

## Images

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ARG80816 Vitamin B12 ELISA Kit standard curve image

ARG80816 Vitamin B12 ELISA Kit results of a typical standard run with optical density reading at 450nm.