

# Young Lin Vitamin Analyzer

*Since the human body cannot synthesize vitamins, they are typically acquired through external sources such as food. So, the quantitative and qualitative analysis of vitamins is very important in food and pharmaceuticals.*

*Vitamins are categorized as water-soluble vitamins or fat-soluble vitamins depending on the soluble solvents.*



## **[ Water-soluble Vitamins ]**

Vitamin C (Ascorbic acid), Vitamin B1 (Thiamin), Vitamin B2 (Riboflavin), Vitamin B3 (Niacin), Vitamin B6 (Pyridoxine, Pyridoxal, Pyridoxamine), Vitamin B12 (Cyanocobalamin), Folic acid, pantothenic acid,



## **[ Fat-soluble Vitamins ]**

Vitamin A (Retinol, Retinal, Retinoic Acid), Vitamin D,  
8 kinds of Vitamin E (4 kinds of Tocopherol, 4 kinds of Tocotrienol), Vitamin K (K1, K2, K3)

*Vitamins are unstable compounds, which are easily oxidized and destroyed during sample preparation procedures. For that reason, a simple assay method that reduces degradation of vitamins is required in order to produce accurate results.*





**Get reliable results with the Young Lin Vitamin Analyzer and enjoy your vitamin analysis.**

*This vitamin analyzer is optimized for the analysis of both water-soluble and fat-soluble vitamins, thus supplying entire solutions.*

## Young Lin Vitamin Analyzer

### Features

- For easy and compact application of vitamin analysis only in easy and compact way
- One simple Young Lin Vitamin Analyzer includes all you need for your vitamin analysis
- Easy to operate and control with our state of the art data system
- Precise applications support in your hand
- Superb performance at an incomparable price

### The Analysis of Results by the Young Lin Vitamin Analyzer

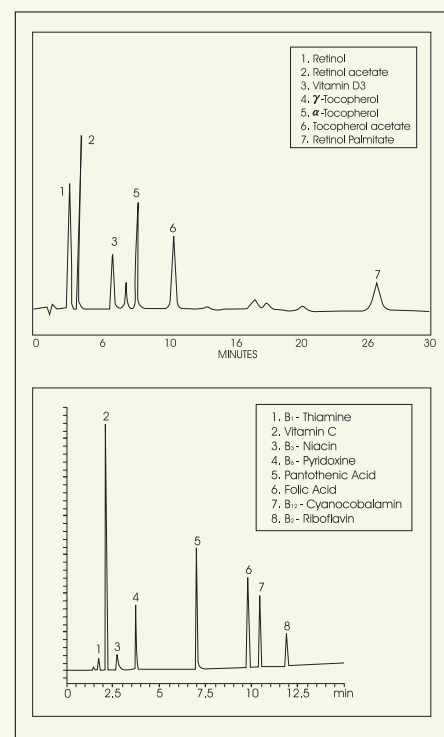
#### [ Water-soluble Vitamins ]

- Column : ZORBAX SB-C8(4.6 X 150 mm)
- UV/Vis Wavelength : 245 nm
- Mobile phase :  
A=50mM Sodium Phosphate, pH 2.5 : MeOH (90 : 10)  
B=50mM Sodium Phosphate, pH 2.5 : MeOH (10 : 90)
- Gradient

Min	A	B	Flow rate(ml/min)
Initial	100	0	1
18	30	70	1

#### [ Fat-soluble Vitamins ]

- Column : ZORBAX XDB-C8(4.6 X 150 mm)
- UV/Vis Wavelength : 280 nm
- Mobile phase : A=Water B=MeOH (A:B=5:95)
- Flow rate : 1 ml/min
- Injection volume : 10 ul



### Applications

- Analysis of Vitamins in Powdered Milk
- Analysis of Vitamins in Drinks
- Analysis of Vitamins in Drugs
- Analysis of Vitamins in Natural Food

