



## Vit-AE-HPLC

### Vitamin A and Vitamin E in Human Serum

Vitamin A plays an essential role in the function of the retina (adaptation to dim light), is necessary for growth and differentiation of epithelial tissue, and is required for growth of bone, reproduction, and embryonic development. Together with certain carotenoids, vitamin A enhances immune function, reducing the consequences of some infectious diseases. Degenerative changes in eyes and skin are commonly observed in vitamin A deficiency. In developing countries, vitamin A deficiency is the principal preventable cause of blindness.

Vitamin E contributes to the normal maintenance of biomembranes, the vascular system, and the nervous systems; and provides antioxidant protection for vitamin A. Deficiency of vitamin E in children leads to reversible motor and sensory neuropathies; this problem also has been suspected in adults.

Vit AE HPLC Analysis Kit allows the quantitative analysis of Vitamin A and Vitamin E in serum and plasma samples. Components such as calibrator, reagent and mobile phase required for analysis are supplied with the kit.

Accurate and Reliable HPLC Method  
to Monitor Vitamin A and Vitamin E status

## Performance Data

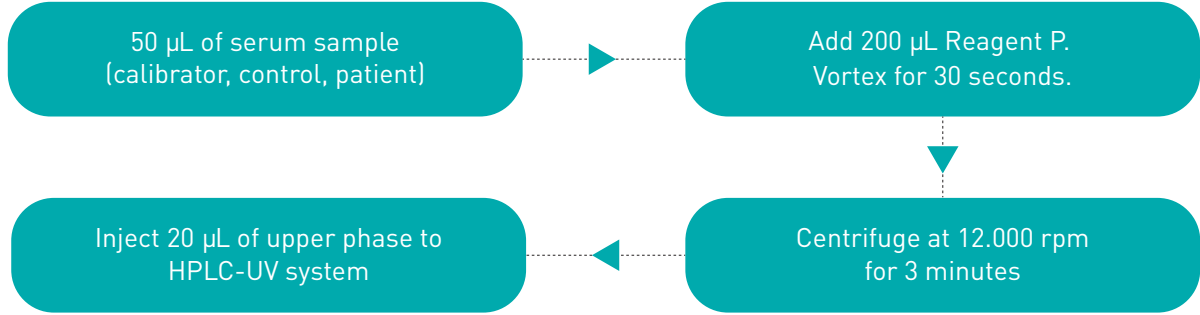
### Linearity

Analyte	Linearity Range
Vitamin A	0.05-5 mg/L
Vitamin E	0.5-50 mg/L

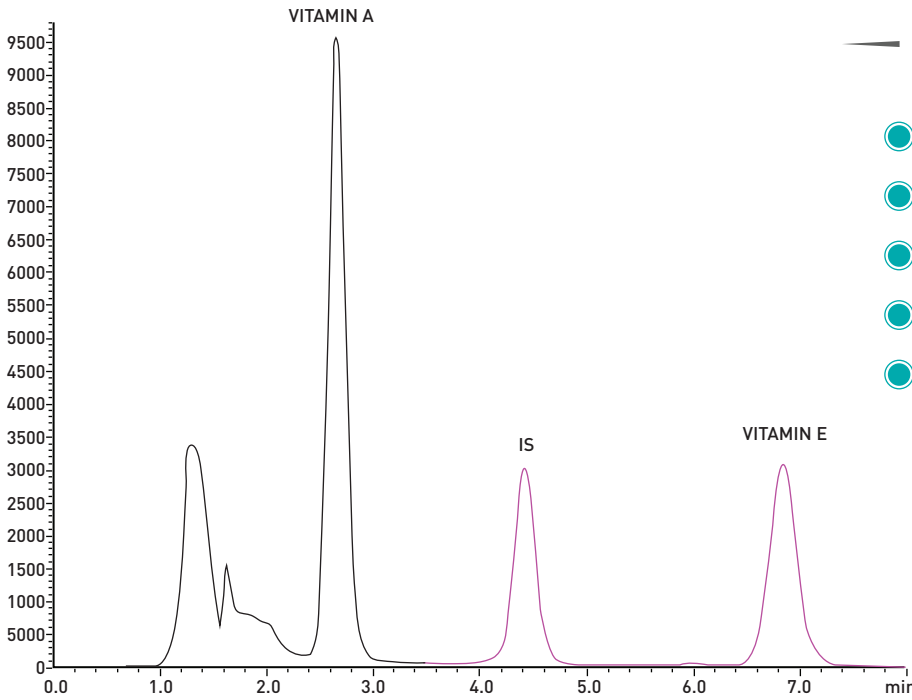
### Reproducibility

Analyte	Intra-assay precision (%CV)	Inter-assay precision (%CV)
Vitamin A	% 2.65	% 4.30
Vitamin E	% 2.58	% 4.20

## Sample Preparation



## Sample Chromatogram



### HPLC Parameters

- **Detection** - UV detector, 325nm and 295nm
- **Column Oven** - 30°C
- **Flow Rate** - 0,5 mL/min
- **Injection Volume** - 20 µL
- **Analysis Time** - 8 Minutes

## Ordering Information

Product Code	Product Name	Tests
BR140030	Vit AE-HPLC Kit	200 Tests
BR140031	Vit AE-HPLC Kit	500 Tests
BR140031C1	Vit AE-HPLC Kit Analytical Column	