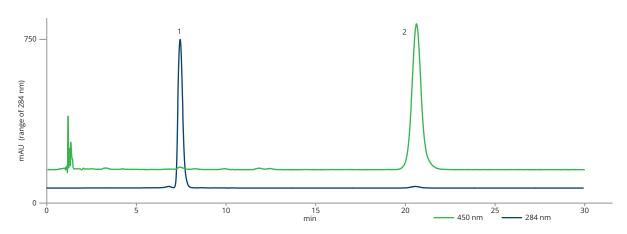
Vitamin E and provitamin A in food supplements

Beta-carotene is one of the group of carotenoids. It is a precursor of Vitamin A and plays a significant role as an antioxidant. Alpha-tocoferol is a type of Vitamin E. This applications shows the separation of both compounds in a sample of a food supplement.

Substance beta-Carotene, CAS Number 7235-40-7 alpha-Tocopherol (E307), CAS Number 59-02-9



Tablet analysis on ASTRA® column

Column	ASTRA® C18-HE, 5 μm
Dimensions	100 m × 4.6 mm
Part number	AST-5732-LI46
Mobile phase	A: Acetonitrile B: Methanol Isocratic elution 70:30 – A:B (v/v)
Flow rate	1.5 ml/min
Temperature	60 °C
Detection	UV/VIS @284 nm (alpha-tocopherol), 450 nm (beta-carotene)
Injection volume	30 µl
Analytes	1. Alfa-tocopherol (Vitamin E α) 2. Beta-carotene (Provitamin A)