

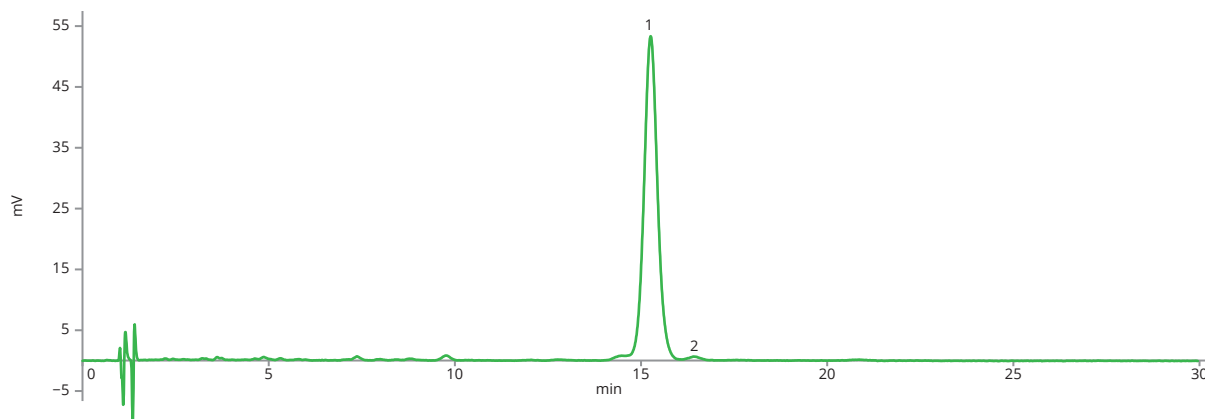
Lutein in food supplements

Lutein and Zeaxanthin are carotenoids used in various dietary supplements. The task of this application was to develop a method that replaces the dichloromethane mobile phase with non-chlorinated solvents.

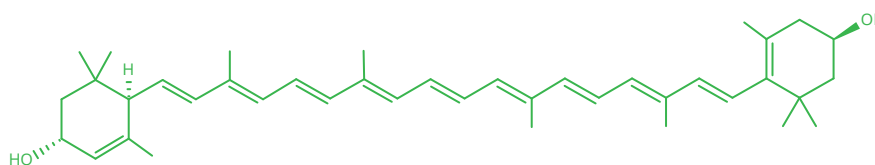
Substance

Lutein, CAS Number 127-40-2

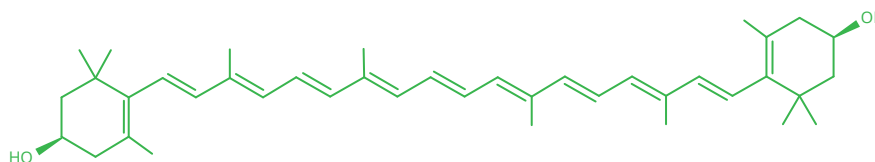
Zeaxanthin, CAS Number 144-68-3



Lutein standard on ASTRA® HPLC column



Lutein



Zeaxanthin



Lutein in food supplements

Column	ASTRA® C18-HE, 5 µm
Dimensions	150 mm × 4.6 mm
Part number	AST-5732-LK46
Mobile phase	ACN : Milli-Q water 90 : 10 (v/v) Isocratic
Flow rate	1.0 ml/min
Temperature	30 °C
Detection	UV @450 nm
Injection volume	10 µl
Analytes	1. Lutein 2. Zeaxanthin