

## HPLC protocols for carotenoids produced in *E. coli*

### I. Modified Tokyo

from J.A. Maresca, J.E. Graham, M. Wu, J. Eisen, and D.A. Bryant. (2007) Identification of a new family of lycopene cyclases in photosynthetic bacteria. Proceedings of the National Academy of Sciences, 104: 11784-11789.

### Solvent A

	%
Water	62.5
Methanol	21
Acetonitrile	16.5
+ 10 mM ammonium acetate	

### Solvent B

	%
Methanol	50
Ethyl acetate	30
Acetonitrile	20

### Gradient

Time (min)	% B	Flow rate (ml min <sup>-1</sup> )
0	20	0.75
3	30	1.00
30	100	1.00
35	100	1.00
40	20	0.75

II. MIT  
from Barua and Olson, 1998. *J. Chromatog. B* 707: 69-79

**Solvent A**

	<b>%</b>
Water	25
Methanol	75
+ 10 mM ammonium acetate	

**Solvent B**

	<b>%</b>
Methanol	80
Dichloromethane	20

**Gradient**

<b>Time (min)</b>	<b>% B</b>	<b>Flow rate (ml min<sup>-1</sup>)</b>
0	0	0.8
20	100	0.8
40	100	0.8
45	0	0.8