

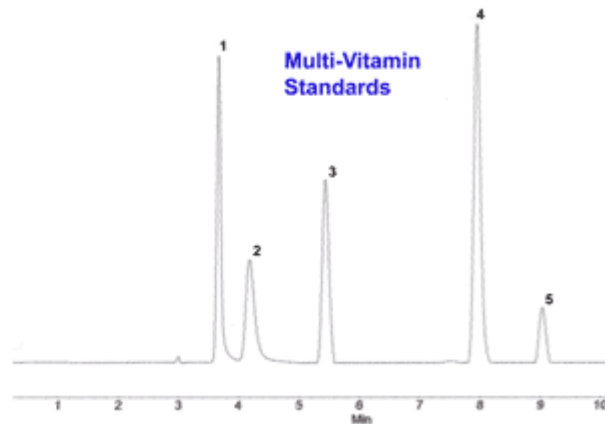
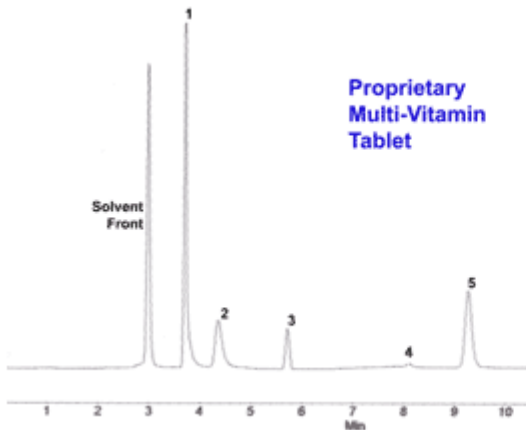


HPLC
PRODUCTS

Cogent Bidentate C18™
Vitamin Tablet &
Standards



HPLC Application Sheet
Proprietary Vitamin Tablet



PEAKS

1. Niacinamide: CAS No. 98-92-0 (3-Pyridinecarboxamide)
2. Thiamine (mono-nitrate): CAS No. 532-43-4
3. Pyriadoxine HCL: CAS No. 65-23-6
4. Folic Acid: CAS No. 59-30-3
5. Riboflavin: CAS No. 83-88-5

Method Conditions

Column: Cogent Bidentate C18™

Catalog No.: 40018-25

Dimensions: 250mm x 4.6mm

Mobile Phase:

0-4 minutes: 5% Acetonitrile: 95% Water/TFA
(0.1% v/v TFA DI Water)

4-10 minutes: 15% Acetonitrile: 85% Water/TF
(0.1% v/v TFA DI Water)

10-15 minutes: 5% Acetonitrile: 95% Water/TF
(0.1% v/v TFA DI Water)

Flow Rate: 1ml/minute

Wavelength: 270nm

Injection Volume: 5ul

Discussion of the Chromatogram:

Standard C18 columns will not be retentive enough to retain these very polar compounds. The Cogent Bidentate C18™ will retain them and due to the chemical nature of the TYPE-C Silica™, the column quickly equilibrates between mobile phase changes making this separation possible with a single pump.