

# HPLC Application

ID No.: 2553

## Water-Soluble Vitamins

**Column:** Luna® 3 µm C18(2) 100 Å, LC Column 150 x 4.6 mm, Ea

**Dimensions:** 150 x 4.6 mm ID

**Order No:** 00F-4251-E0

**Elution Type:** Gradient

**Eluent A:** Methanol

**Eluent B:** 0.005 M Hexanesulfonic Acid (0.1% TFA and 0.01% TEA) with 5 % Methanol premixed

<b>Gradient Profile:</b>	<b>Step No.</b>	<b>Time (min)</b>	<b>Pct A</b>	<b>Pct B</b>
	<b>1</b>	0	0	100
	<b>2</b>	5	0	100
	<b>3</b>	16	23	77
	<b>4</b>	26	26	74
	<b>5</b>	28	50	50
	<b>6</b>	30	0	100
	<b>7</b>	45	0	100

**Flow Rate:** 0.55 mL/min

**Col. Temp.:** 30 °C

**Detection:** UV-Vis Abs.-Diode Array (PDA) @ 260/280 nm (ambient)

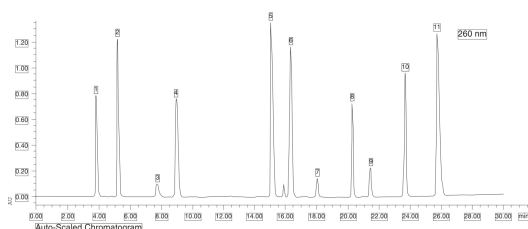
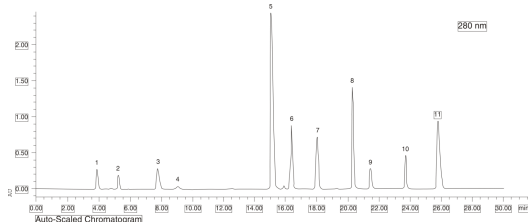
**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, C18 4 x 3.0mm, 10/Pk Part No.: AJ0-4287

- Holder Part No.: KJ0-4282



Products used in this application:



## Water-Soluble Vitamins

### ANALYTES:

- 1 Ascorbic acid
- 2 Niacin
- 3 Pyridoxal 5'-phosphate
- 4 Niacinamide
- 5 Paraminobenzoic acid
- 6 Riboflavin 5'-phosphate
- 7 Pyridoxine
- 8 Folic acid
- 9 Cyanocobalamin
- 10 Thiamine
- 11 Riboflavin

