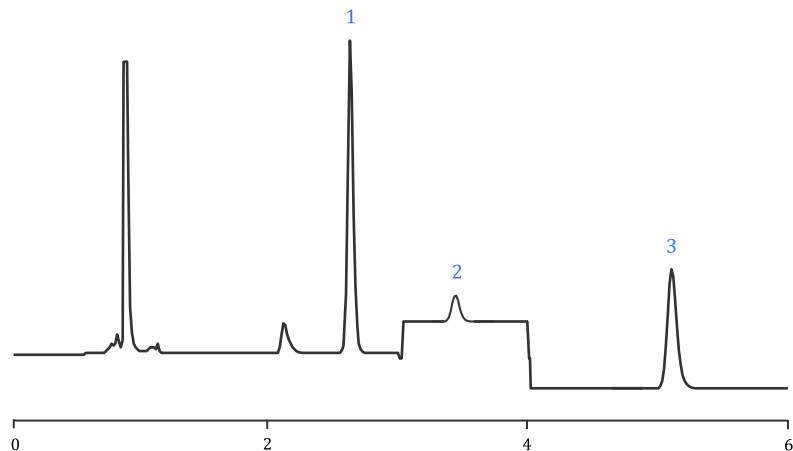


## Simultaneous Specific Determination of Caffeine, Riboflavin & Pyridoxine in Non-Alcoholic Beverages, Beverage Concentrates and Syrups Using Isocratic HPLC-UV

The method is intended for the highly selective determination of caffeine, riboflavin & pyridoxine in beverage, beverage concentrate and syrup samples using simple isocratic 400 bar HPLC system with a conventional UV detector.

The method is capable to determine caffeine in complex matrices that contain water-soluble vitamins (C, B1, B3, B9), preservatives, natural and synthetic dyes, UV-absorbing flavoring agents (vanillin, ethylvanillin, benzaldehyde, etc.), natural compounds including hydroxybenzoic & hydroxycinnamic acids and aldehydes.

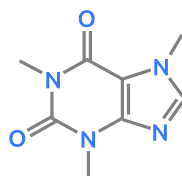
### Chromatogram



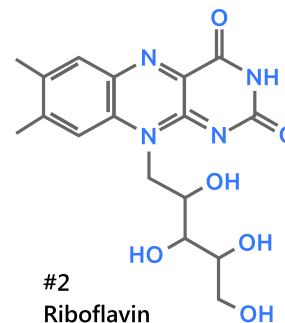
**Figure 1.** Isocratic determination of caffeine, riboflavin, and pyridoxine in the beverage concentrate #1. Detection: 0-3 min UV 270 nm, 3-4 min UV 360 nm, 4-5.5 min UV 300 nm

### Analytes

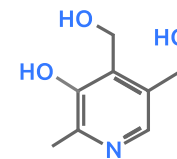
1. Caffeine, 2. Riboflavin, 3. Pyridoxine



#1  
Caffeine



#2  
Riboflavin



#3  
Pyridoxine