Waters™

應用手冊

Vitamins- Water-Soluble

Waters Corporation

This is an Application Brief and does not contain a detailed Experimental section.

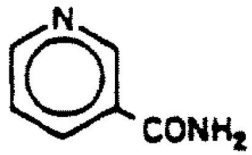
Abstract

This application brief demonstrates analysis of vitamins- water-soluble.

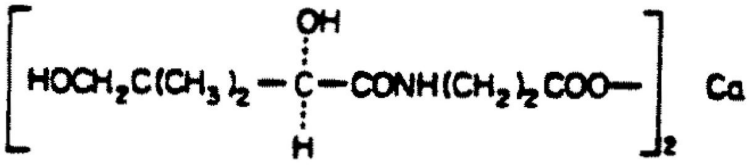
Introduction

The compounds used in this study are –

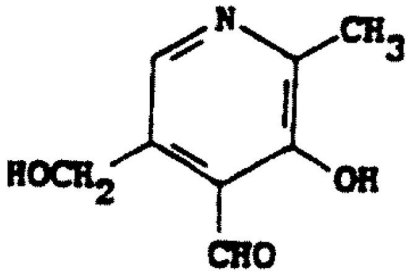
Compounds	USP Tailing Factors
Niacinamide	n.c.
Calcium Pantothenate	n.c.
Pyridoxal	1.4
Pyrodoxine Hydrochloride	1.1
Pyridoxamine Dihydrochloride	1.2
Riboflavin	1.1
Thiamine Hydrochloride	1.2



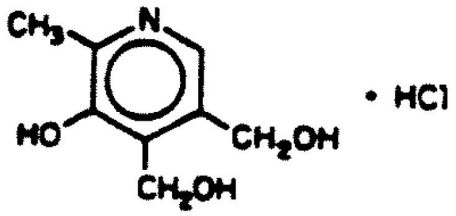
1. Niacinamide



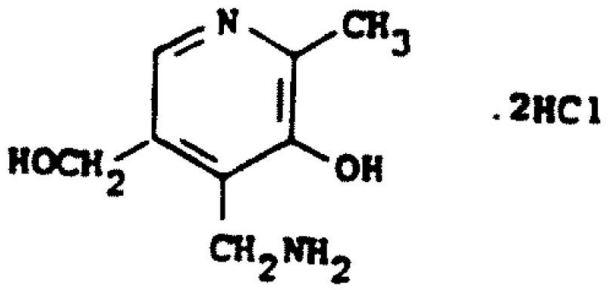
2. Calcium Pantothenate



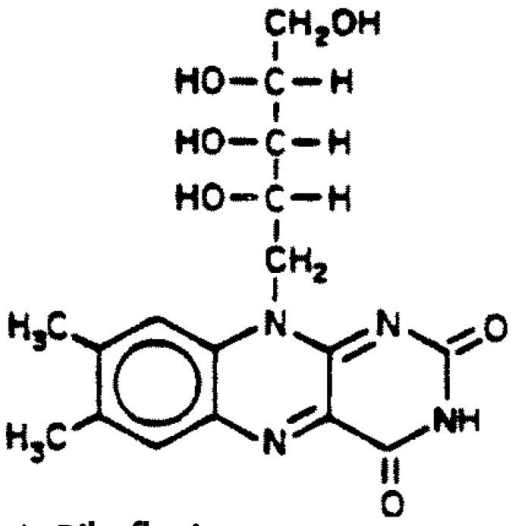
3. Pyridoxal



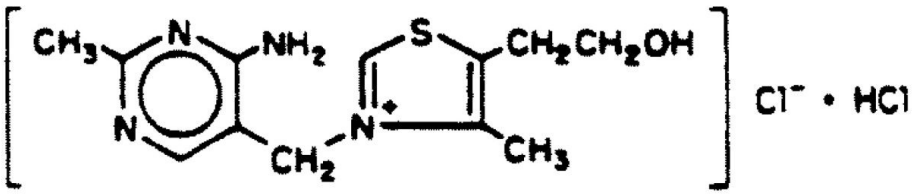
4. Pyrodoxine Hydrochloride



5. Pyridoxamine Dihydrochloride



6. Riboflavin



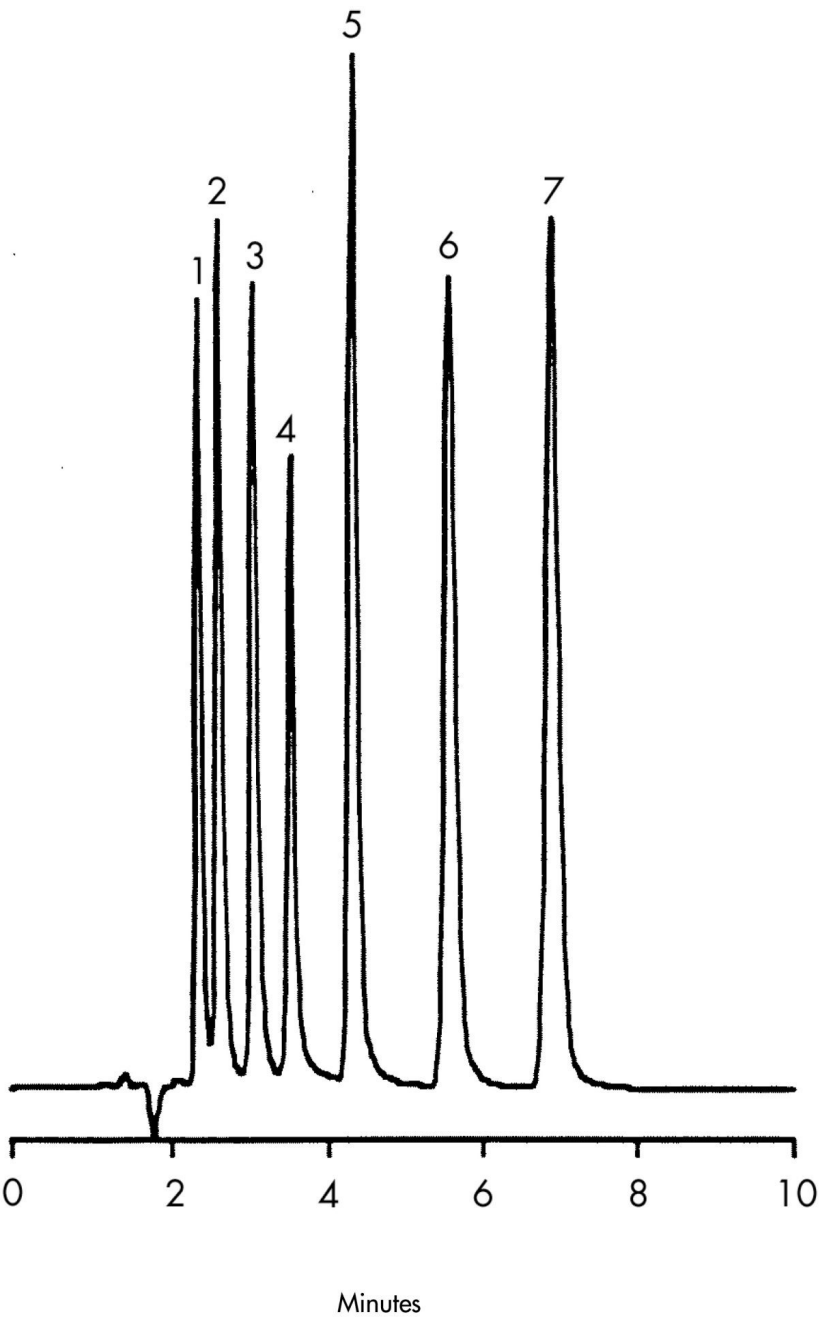
7. Thiamine Hydrochloride

Experimental

HPLC Method

Column:	Symmetry C_{18}, 3.9 x 150 mm, 5 µm
Part numbers:	Column - WAT046980, PIC B6 - WAT084199
Mobile phase:	20 mM PIC B6 (hexane sulfonic acid) and 0.1% phosphoric acid, pH 2.2/methanol 75:25
Flow rate:	0.7 mL/min
Injection volume:	10 µL of mixture with component 1 at 11 µg/mL, 2 at 133 µg/mL, 3 at 17 µg/mL, 4 at 6 µg/mL, 5 at 25 µg/mL, 6 at 34 µg/mL, and 7 at 67 µg/mL
Detection:	UV @ 210 nm

Results and Discussion



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