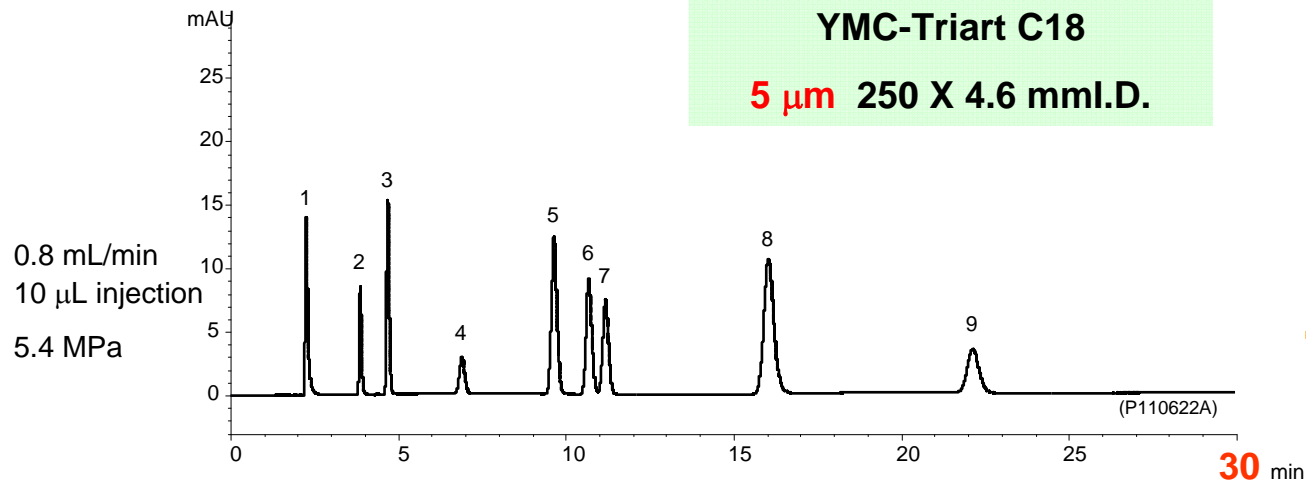


# Triart C18アプリケーション ～ 水溶性ビタミン分析の高速化～

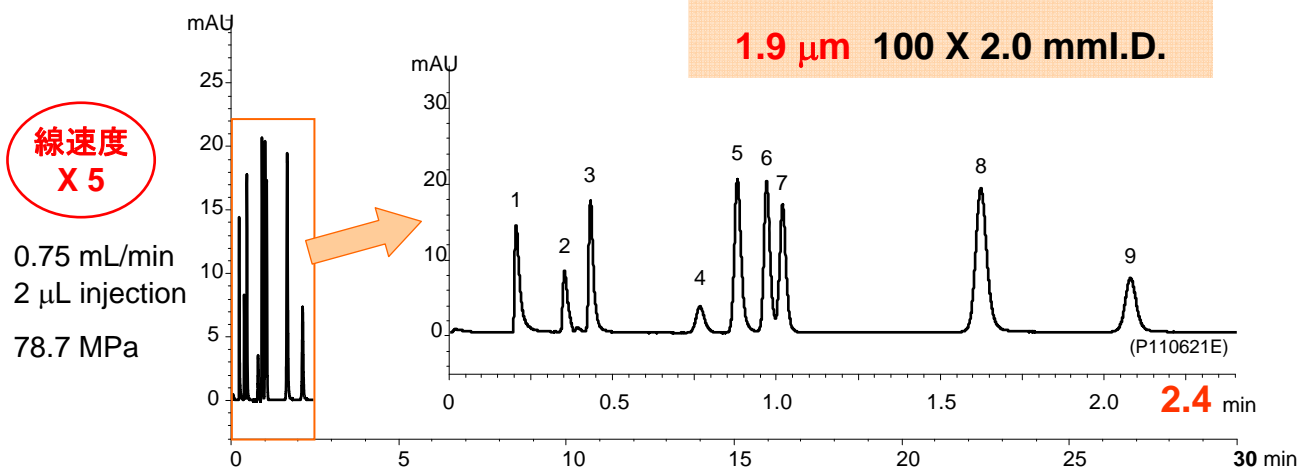
## HPLC method

(食品中の食品添加物分析法準拠)



1. Thiamine HCl (Vitamin B<sub>1</sub>)
2. Pyridoxine HCl (Vitamin B<sub>6</sub>)
3. Nicotinamide
4. Cyanocobalamin (Vitamin B<sub>12</sub>)
5. L-Ascorbic acid 2-glucoside
6. L-Ascorbic acid (Vitamin C)
7. Erythorbic acid
8. Riboflavin (Vitamin B<sub>2</sub>)
9. Nicotinic acid

## UHPLC method



分析時間 X 1/13  
溶媒使用量 X 1/13

5  $\mu$ m & 250 mm長を用いた  
HPLCメソッドの高速化には  
1.9  $\mu$ m & 100 mm長カラムが  
最適です

Eluent	: phosphate buffer*/acetonitrile (90/10) ※Dissolve 1.4 g KH <sub>2</sub> PO <sub>4</sub> in 800 mL water → add 26 mL 10% tetrabutylammonium hydroxide (TBA · OH) →adjust pH 5.2 by 20% H <sub>3</sub> PO <sub>4</sub> →add water to make 1000 mL
Temperature	: 40°C
Detection	: UV at 260 nm
Sample	: 5 $\mu$ g/mL
System	: Agilent 1290