

Vitamin B₁₂ in Tablet by Switching Valve System

1. Analytical Condition

Vitamin Analyzer

Mobile Phase & Flow Rate

- Pump 1 → ACN: 0.1% H₃PO₄, 10mM KH₂PO₄ in Water=15:85, 0.3mL/min

- Pump 2 → ACN: 0.1% H₃PO₄, 10mM KH₂PO₄ in Water=27:73, 0.2mL/min

Column Oven : 40°C

Detector : UV/Vis 361 nm

Injection Volume : 250μL

Column - Pre-Column: Zorbax Eclipse XDB-C8, 4.6X150mm, 5μm

- Trapping Column: Zorbax Eclipse PLUS C18, 4.6X50mm, 5μm

- Analytical Column: Zorbax Poroshell 120 EC-C18, 2.1X250mm, 4μm

Valve Switching Time: 5.0 min (P2), 7.0 min (P1)

2. Chromatogram

