

## Determination of Vitamin B6 in Blood Samples with Fluorescence Detection after Derivatization with Bisulfite

**Method** VCL0009J  
**HPLC** RP mode

**Column:** ProntoSIL 120-5 C18 AQ  
125 x 3 mm ID with integrated precolumn

**Order No. 12XF184PSJ**

**Phase:** ProntoSIL 120-5 C18 AQ

**Conditions:** Eluent: A: 100 mM KH<sub>2</sub>PO<sub>4</sub>, 100 mM NaClO<sub>4</sub>, 0,5 g/l NaHSO<sub>3</sub>/Acetonitrile 97:3 (v/v)  
B: Acetonitrile  
Gradient: 0.0 – 1.6 min 0 % B  
1.6 – 1.7 min 0 – 50 % B  
1.7 – 2.7 min 50 % B  
2.7 – 2.8 min 50 – 0 % B  
2.8 – 5 min 0 % B  
Flow rate: 1.2 ml/min  
Temperature: 30 °C  
Volume: 10 µL

**Detection:** Fluorescence RF-20AXs, 5 Hz, 0.1 s, Ex 290, Em 400, Sensitivity: High, Gain x16

**Additional Procedure:** Derivatization of Vitamin B6 with bisulfite solution realized in the mobile phase without the need of the additional post column addition of a reagent

**Substances:** Vitamin B6

**Keywords:** Vitamin B6, blood analysis, clinical, derivatization bisulfite

**Chromatogram:**

1 Vitamin B6

Blue: Standard

Green: Blood Sample

