

IC Application Note No. U-10

Title: Nitrite, nitrate and phosphate in sea water from a shrimp farm

Summary: Determination of nitrite, nitrate and phosphate in a sea water from a shrimp farm applying anion chromatography with conductivity detection after chemical suppression and subsequent UV/VIS detection.

Sample: Sea water

Sample Preparation: –

Column: 6.1020.010 Metrosep A Supp 10 – 100

Temperature: 50 °C

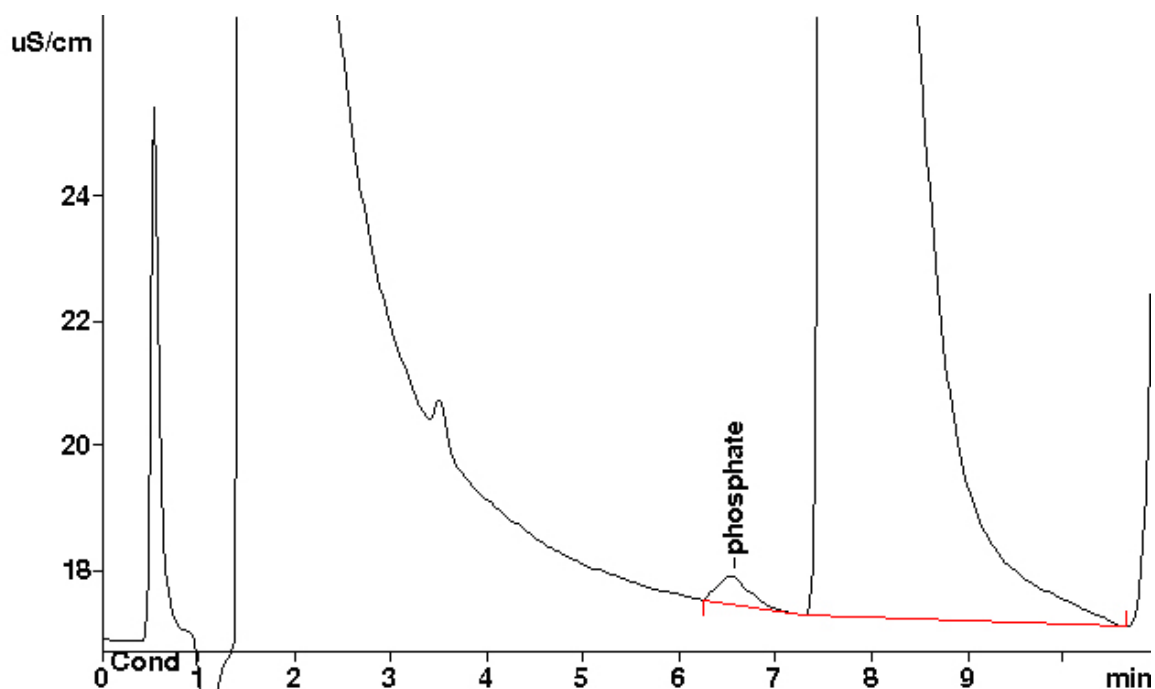
Wavelength: 215 nm

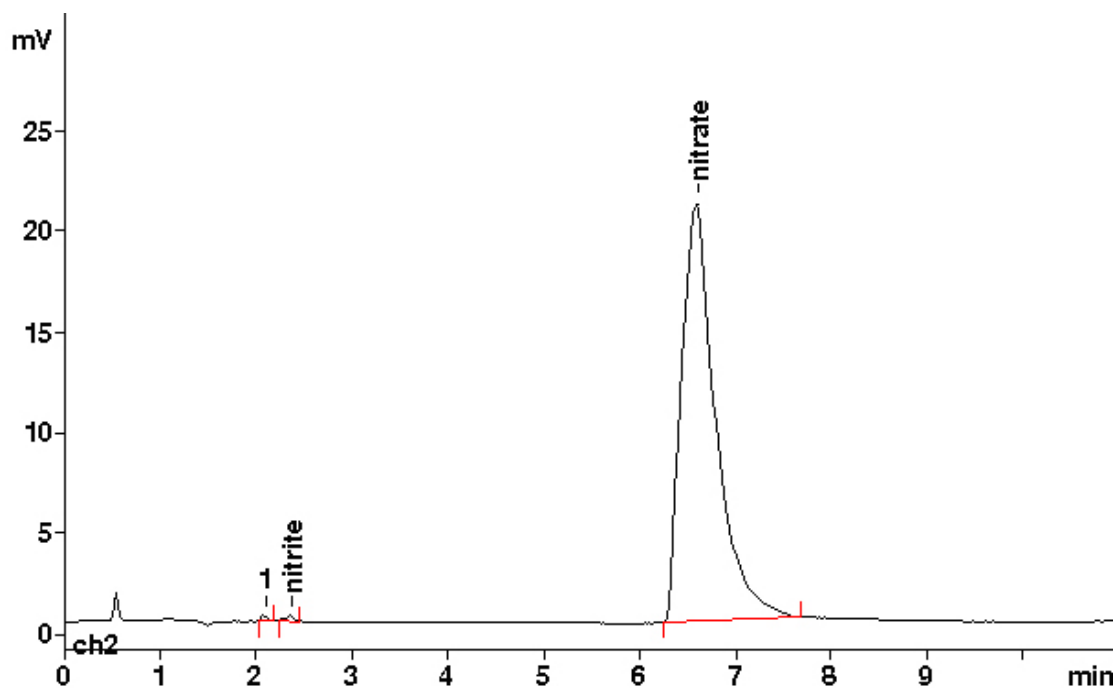
Eluent: 5.0 mmol/L sodium carbonate
5.0 mmol/L sodium hydrogencarbonate

Suppressor: Metrohm Suppressor Module (MSM, 100 mmol/L sulfuric acid)

Flow: 2.0 mL/min

Injection Volume: 2.5 μ L





Results:	Phosphate mg/L	Nitrite mg/L	Nitrate mg/L
Conductivity detection	13.3	–	–
UV/VIS detection	–	0.10	29.7