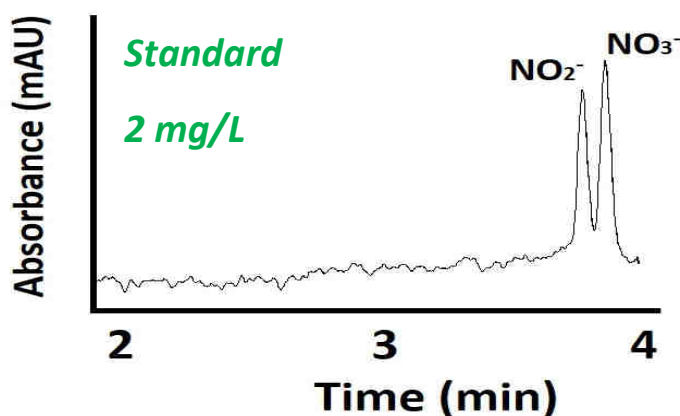


APPLICATION NOTE

Determination of Nitrite and Nitrate in Chloride matrices

Developments carried out for Phytocontrol Laboratories

The concentration levels of nitrite and nitrate in water and food are important indicators of quality. Generally the levels in these matrices are low and interferences of other compounds such as chloride, sulfate, and bromide are numerous. As nitrite and nitrate have absorption bands in the UV, WynSep developed a CE-UV method allowing an analysis without anionic interferences. In this Application Note, Analyses of seawater and food matrices are presented.



ANALYTICAL CONDITIONS

Buffer: WynSep Tris Buffer

Capillary: silica bare-fused + PEI

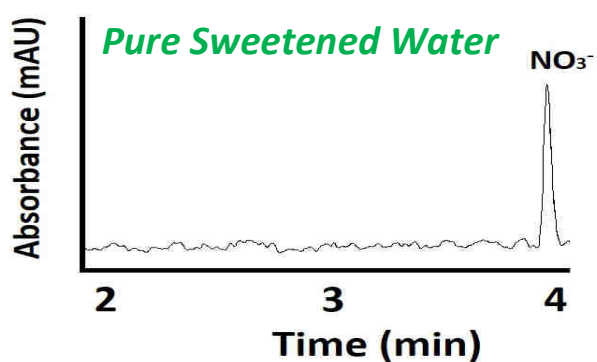
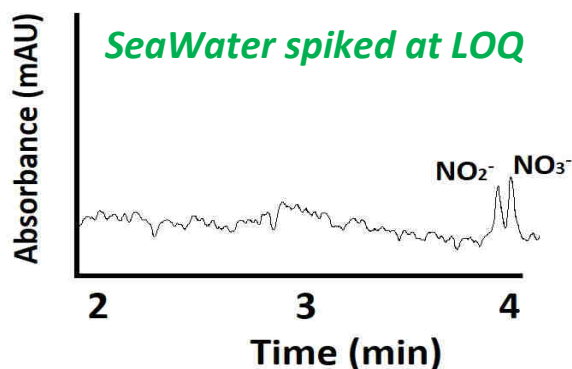
Injection: hydrodynamic, 50 mbar, 20 s

Voltage: -25 kV

Detection: UV, 210 nm

Temperature: 25 °C

LOD: 0.4 mg/L (nitrite), 0.3 mg/L (nitrate)



Comparison UV / C4D – Onion Powder prepared at 37 mg/L injected without dilution

