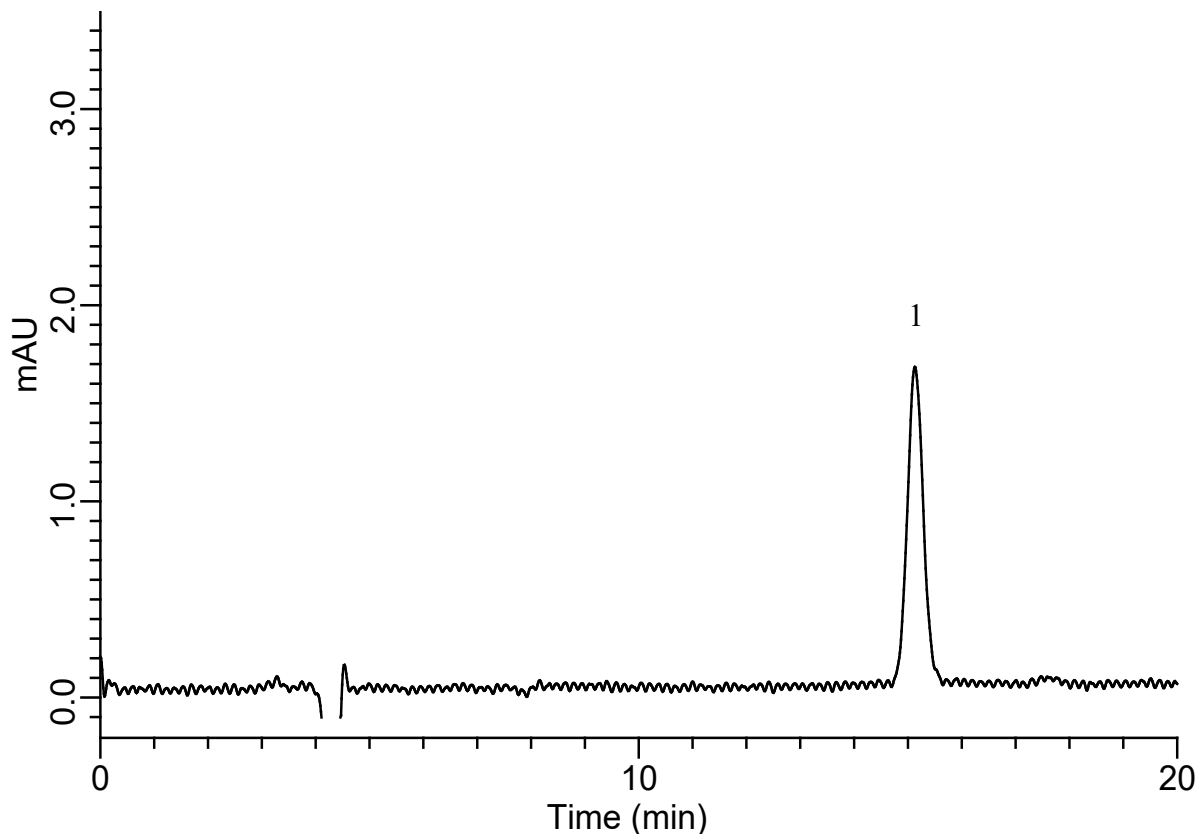


InertSearch for LC

Inertsil Applications

Analysis of bromate (Detected by Post-Column method)

Data No. LB680-1030



Conditions

System : Chromaster
Column : InertSustain C18
(5 μ m, 250 x 4.6 mmI.D.)
Column Cat. No. : 5020-07346
Eluent : Solution A
Flow Rate : 0.9 mL/min
Reaction Reagent : Solution B
Reaction Temp. : 60 °C
Reaction flow Rate : 0.3 mL/min
Col. Temp. : 40 °C
Detection : VIS 450 nm (5430 Diode Array Detector)
Injection Vol. : 100 μ L
Sample : KBrO₃ Standard solution

Analyte:

1. Bromate anion 20 μ g/L as KBrO₃

Solution A : Dissolve 2.0 g of CH₃COOH and 45 g of 10% Tetra-*n*-butylammonium Hydroxide (TBAH) aq. in mixture of methanol : water (700 mL : 100 mL).

Adjust with TBAH to pH 5.0, and make up to 1000 mL by adding water.

Solution B : A) Dissolve 10.0 g of KBr in mixture of water : nitric acid (700 mL : 60mL)

B) Dissolve 500 mg *o*-dianisidine dihydrochloride in 200mL of methanol

Mix of A and B, and make up to 1000 mL by adding water.