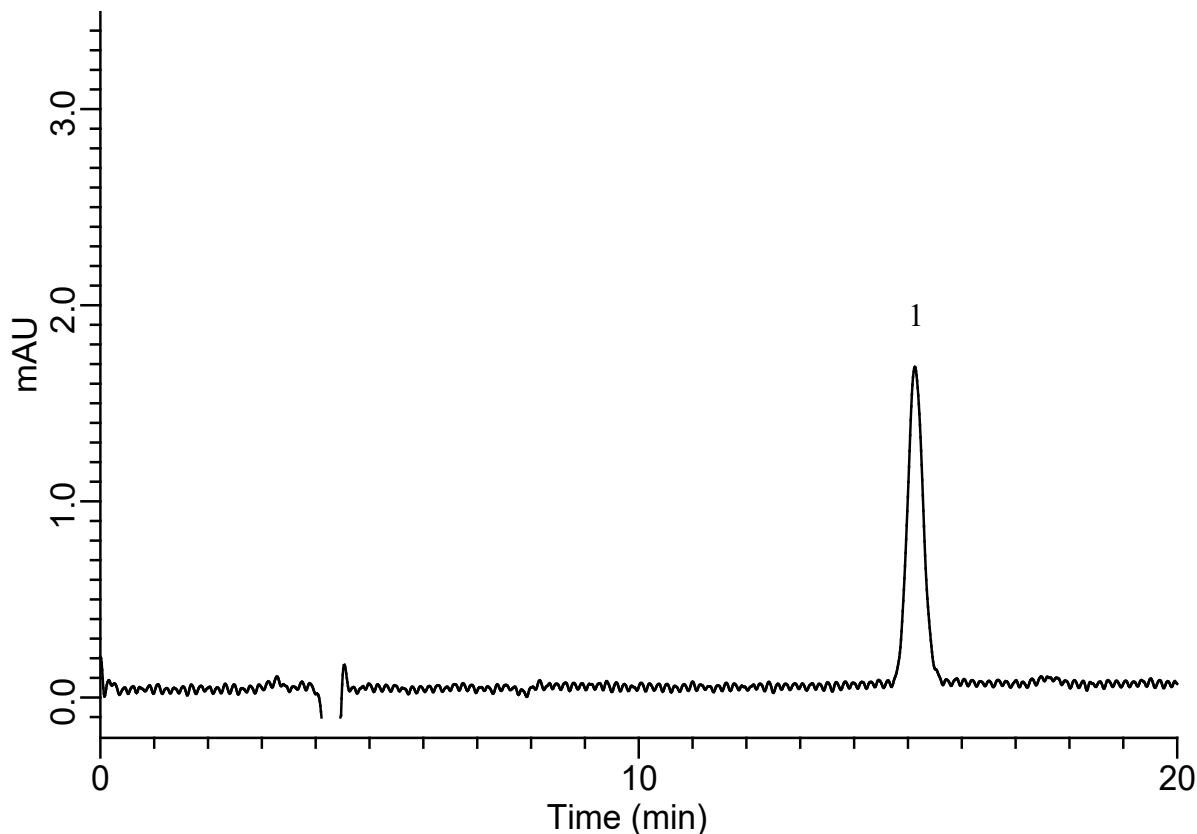


# InertSearch for LC

Inertsil Applications

## Analysis of bromate (Detected by Post-Column method)

Data No. LB680-1030



### Conditions

**System** : Chromaster  
**Column** : InertSustain C18  
(5  $\mu$  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  $\mu$  L  
**Sample** : KBrO<sub>3</sub> Standard solution

### Analyte:

1. Bromate anion 20  $\mu$  g/L as KBrO<sub>3</sub>

Solution A : Dissolve 2.0 g of CH<sub>3</sub>COOH 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.