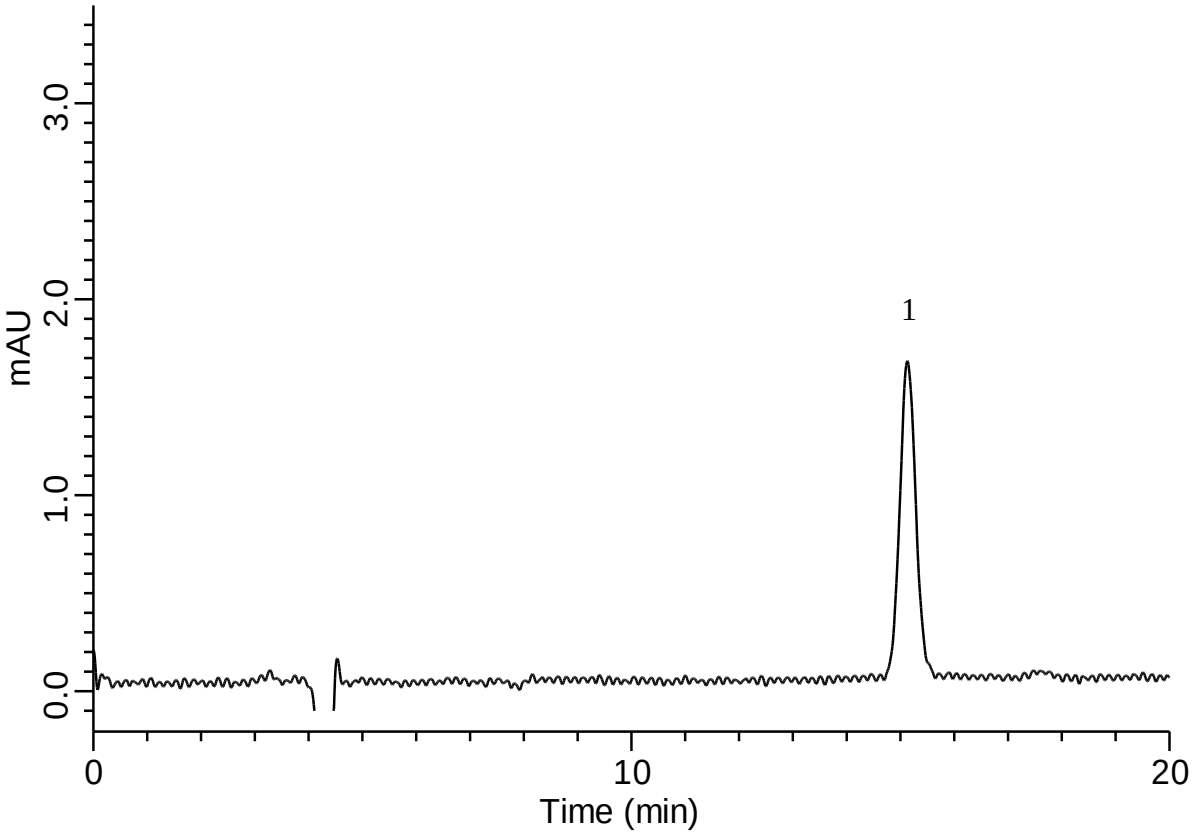
Analysis of bromate (Detected by Post-Column method)



Conditions

System	:	Chromaster
Column	:	InertSustain C18 (5 μm, 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 ℃
Reaction flow Rate	:	0.3 mL/min
Col. Temp.	:	40 ℃
Detection	:	VIS 450 nm (5430 Diode Array Detector)
Injection Vol.	:	100 μL
Sample	:	$KBrO_3$ Standard solution

Analyte:

1. Bromate anion 20 μg/L as $KBrO_3$

Solution A : Disolve 2.0 g of CH_3COOH 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) Disolve 10.0 g of KBr in mixture of water : nitricacid (700 mL : 60mL)
B) Disolve 500 mg *o*-dianisidine dihydrochloride in 200mL of methanol
Mix of A and B, and make up to 1000 mL by adding water.