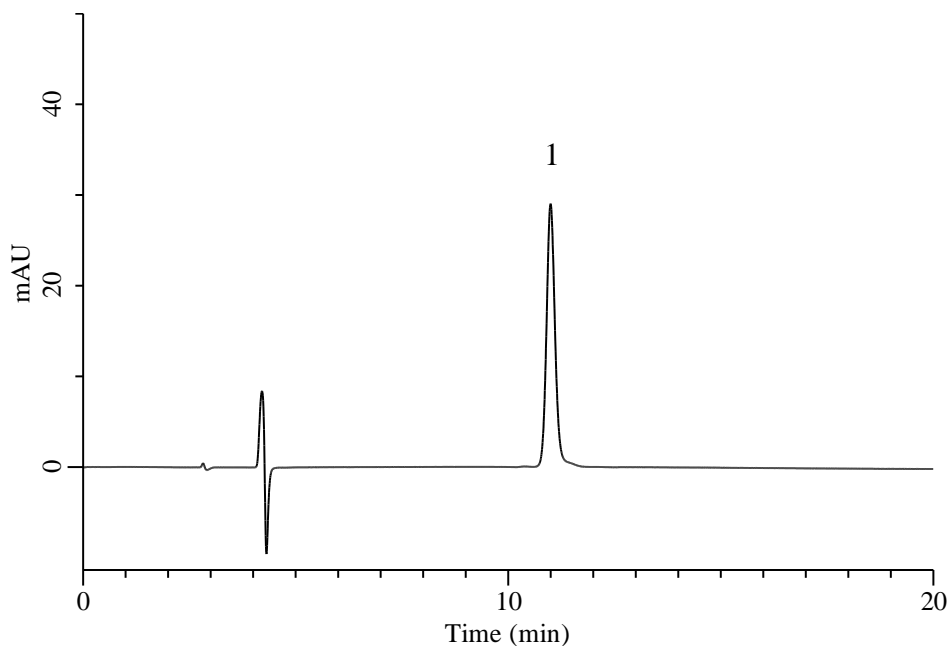


Analysis of Ethylenediaminetetraacetic acid ferric sodium salt trihydrate (Under the Condition of food additive analysis method in food, Calcium Disodium Ethylenediaminetetraacetate and Disodium Ethylenediaminetetraacetate)



Conditions

System : Chromaster HPLC system (HITACHI)
Column : InertSustain C18 (GL Sciences Inc.)
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-07346
Eluent : A) H₂O
 B) CH₃OH
 C) Buffer*
 A/B/C = 78/12/10**, v/v/v
Flow Rate : 0.8 mL/min
Col. Temp. : 40 °C
Detection : UV 254 nm
Injection Vol. : 20 μ L
Sample : Standard

Analyte:

1. Fe(III)-EDTA *** 10 μ g/mL
 ***Ethylenediaminetetraacetic acid ferric sodium salt trihydrate

*Phosphate buffer solution (0.2 mol/L, pH 4.0): Weigh 27.2 g of potassium dihydrogen phosphate, add water to make 1000 mL, and make a 0.2 mol/L potassium dihydrogen phosphate solution. Weigh 23.1 g of phosphoric acid, add water to make 1000 mL, and make a 0.2 mol/L phosphoric acid solution. 0.2 mol/L potassium dihydrogen phosphate solution is added to the 0.2 mol/L phosphoric acid solution to adjust pH to 4.0.

**Weigh 1.61 g of tetra-n-butylammonium bromide, add water/methanol/phosphate buffer (0.2 mol/L, pH 4.0) mixture (78:12:10), and dissolve to make 1000 mL.