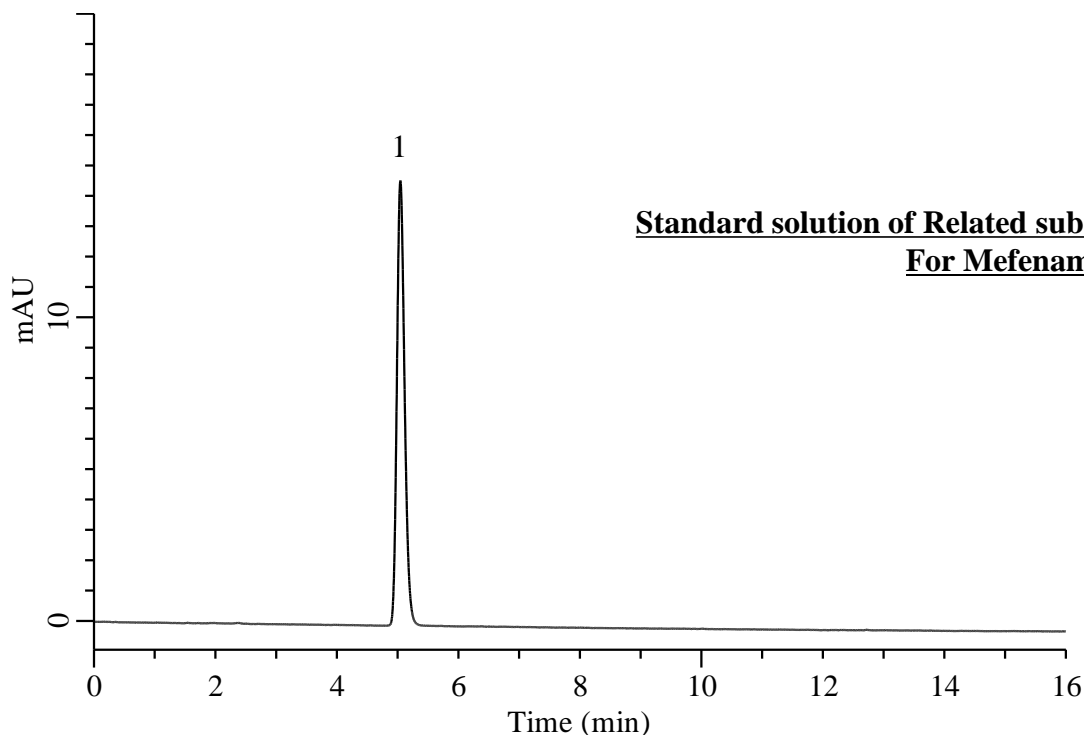


Analysis of Mefenamic acid

(Under the Condition of the draft for the Indian Pharmacopoeia, Mefenamic acid and Paracetamol Tablets)



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) CH₃CN
 B) Buffer*
 A/B = 45/55, v/v
Flow Rate : 1.0 mL/min
Col. Temp. : 25 °C
Detection : UV 285 nm
Injection Vol. : 10 μ L
Sample : Standard

Analyte:

1. Mefenamic acid 5 mg/L

 Number of theoretical plates : 7,448 (\geq 1,500)
 Tailing factor : 1.21 (\leq 2.0)
 RSD of the peak area (%) (n=6) : 0.12 (\leq 5.0)

* Dissolve 8.37g of potassium dihydrogen orthophosphate and 6.71g of dipotassium hydrogen orthophosphate in 1000 ml of water, adjusted to pH 6.5 with dilute orthophosphoric acid.