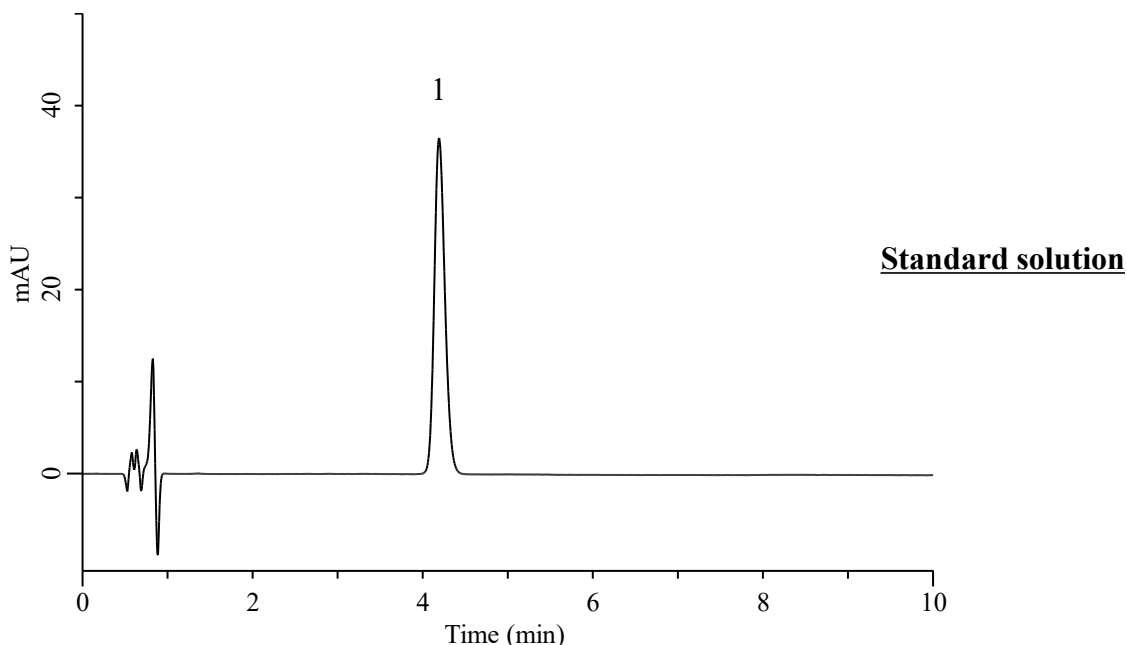


Analysis of Tramadol Hydrochloride

(Under the Condition of draft for USP, Tramadol Hydrochloride Tablets ASSAY)



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustain C8 (GL Sciences Inc.)
 (5 μ m, 150 x 3.9 mm I.D.)
Column Cat. No. : 5020-87028
Eluent : CH₃CN/Solution*= 23/77, v/v
Flow Rate : 2.0 mL/min
Col. Temp. : 40 °C
Detection : UV 273 nm (Chromaster 5430 DAD)
Injection Vol. : 20 μ L
Sample : Standard in 0.1N hydrochloric acid

Analyte:

1. Tramadol hydrochloride 0.1 mg/mL

Tailing factor : (0.8 $\leq$) 1.21 ($\leq$ 1.8)

RSD of
 the peak area (%) (n=6) : 0.10 ($\leq$ 0.73)

*: Add 5 mL of perchloric acid in 950 mL of water in a 1-L volumetric flask. Add 4 mL of 25% ammonia water, dilute with water to volume, and mix. Adjust with 25% ammonia water to a pH of 2.2 $\pm$ 0.2.