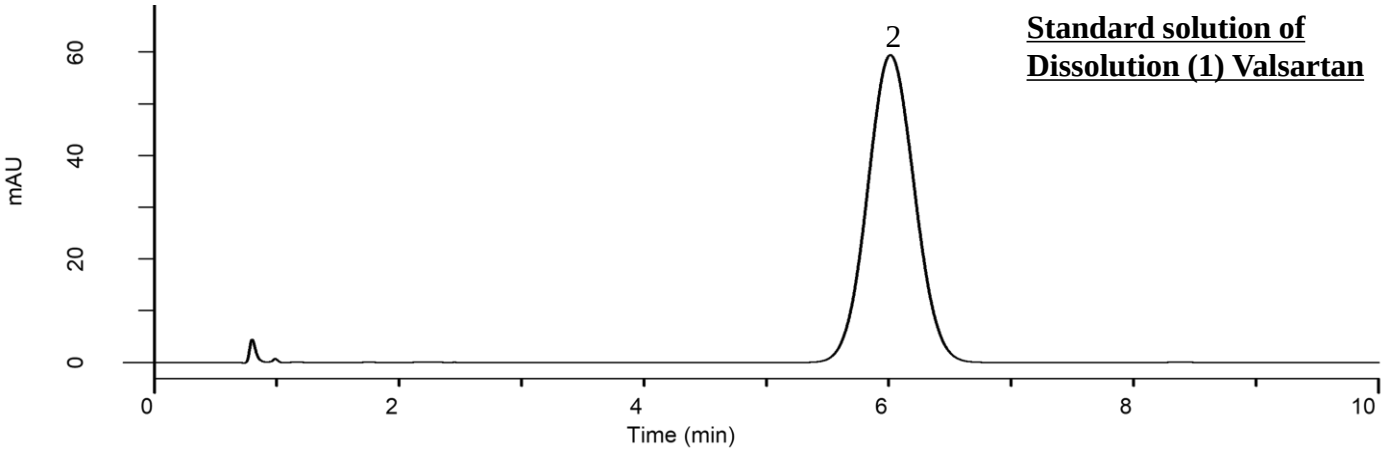
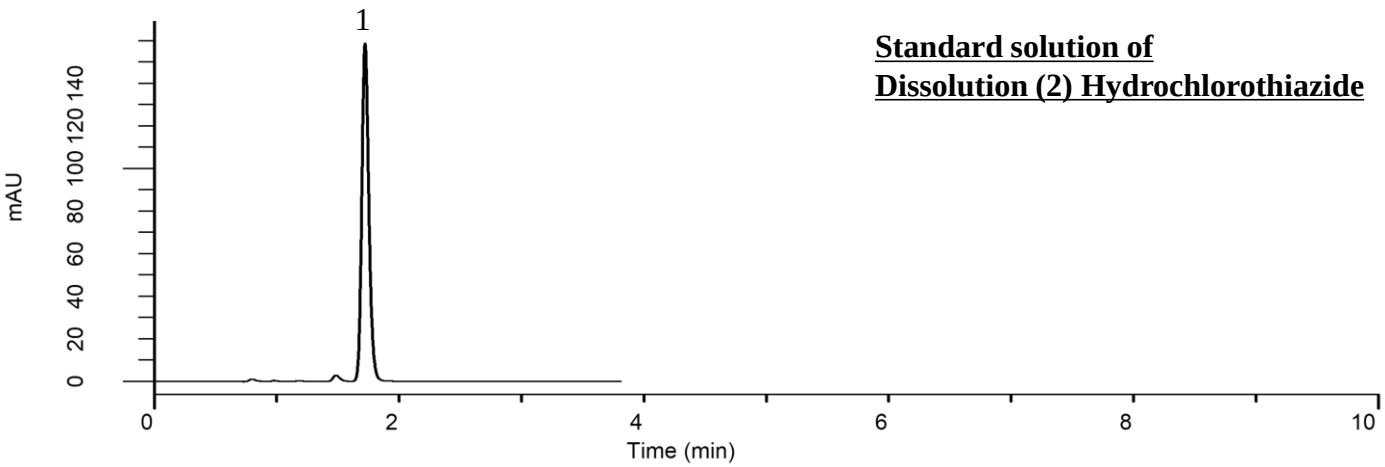
Analysis of Valsartan and Hydrochlorothiazide

(Under the Condition of the draft for the Japanese Pharmacopoeia, Valsartan and Hydrochlorothiazide Tablets)



Standard solution of Dissolution (1) Valsartan



Standard solution of Dissolution (2) Hydrochlorothiazide

Conditions

System : GL7700 HPLC system
Column : InertSustainSwift C18 (5 μm, 125 x 3.0 mm I.D.)
Column Cat. No. : 5020-88250
Eluent : A) CH_3CN
B) Buffer*
A/B = 20/80, v/v
Flow rate : 0.9 mL/min
Col. Temp. : 25 ℃
Detection : UV 225 nm (UV7750 UV Detector)
Injection Vol. : 10 μL
Sample : Standard

*Dissolve 14.68 g of $Na_2HPO_4 \cdot 12H_2O$ and 3.81 g of KH_2PO_4 in 1000 mL of water.

Analyte:

1. Hydrochlorothiazide	7 mg/L
2. Valsartan	30 mg/L

Theoretical plates (2) : 1,135 (≧ 500)
Symmetry factor (2) : (0.7 ≦) 1.04 (≦ 1.5)
RSD of the peak area of 2 (%)(n=6) : 0.06 (≦ 1.0)

Theoretical plates (1) : 4,355 (≧ 3,000)
Symmetry factor (1) : 1.17 (≦ 2.0)
RSD of the peak area of 1 (%)(n=6) : 0.13 (≦ 1.0)