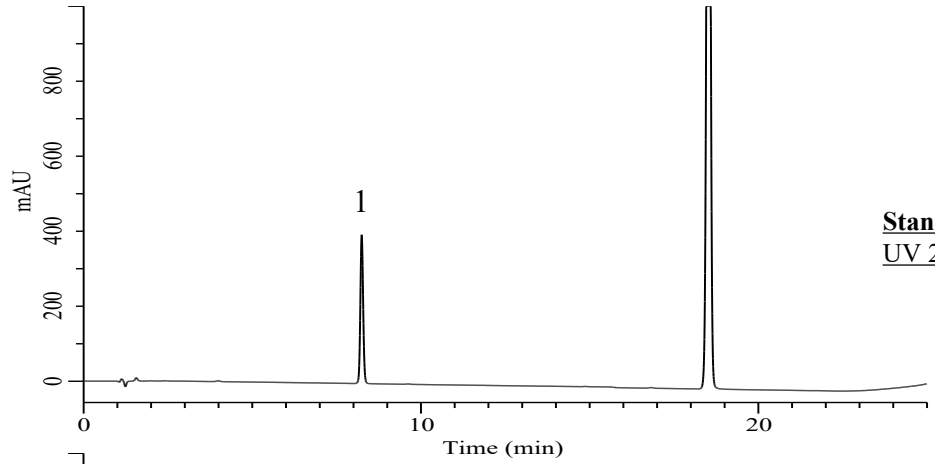
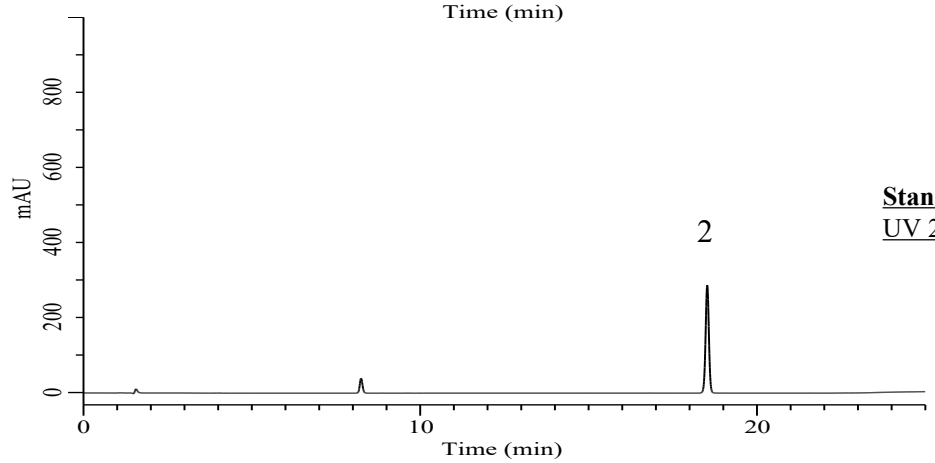
Analysis of Sumatriptan succinate and Naproxen sodium

(Under the Condition of the draft for USP, Sumatriptan and Naproxen Sodium Tablets , Assay)



Standard solution
UV 227 nm for Sumatriptan



Standard solution
UV 270 nm for Naproxen

Conditions

System : Primaide HPLC system (HITACHI)
Column : Inertsil Ph-3 (GL Sciences Inc.)
(3 μ m, 100 x 4.6 mm I.D.)
Column Cat. No. : 5020-05044
Eluent : A) CH_3CN
B) 0.1 % TFA in H_2O

Time (min)	A (vol %)	B (vol %)
0	5	95
20	50	50
22	5	95
25	5	95

Flow Rate : 1.2 mL/min
Col. Temp. : 35 ℃
Detection : UV 227 nm for Sumatriptan (1430 DAD)
UV 270 nm for Naproxen (1430 DAD)
Injection Vol. : 10 μ L
Sample : Standard

Analyte:

1. Sumatriptan succinate	0.048 mg/mL
2. Naproxen sodium	0.2 mg/mL

Relative retention time
Sumatriptan succinate : 1.0 (8.2)
Naproxen sodium : 2.25 (18.5)

Tailing factor
peak area of 1 : 1.09 (≦ 1.8)
peak area of 2 : 1.02 (≦ 1.8)

RSD of the
peak area of 1 (%)(n=6) : 0.82 (≦ 1.0)
peak area of 2 (%)(n=6) : 0.77 (≦ 1.0)