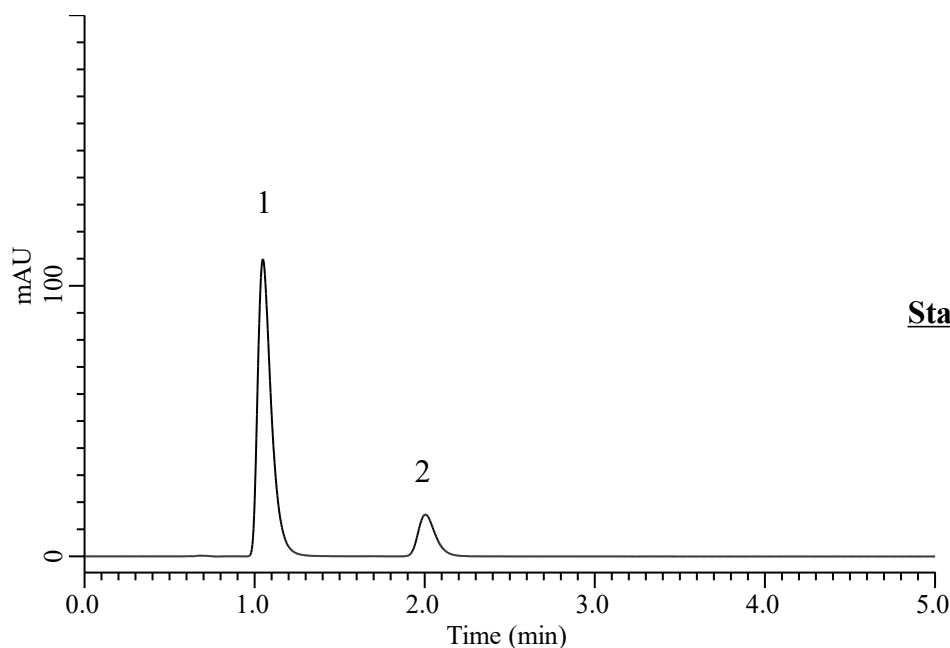


Analysis of Levodopa and Carbidopa

(Under the Condition of draft for USP, Carbidopa, Levodopa, and Entacapone Tablets , DISSOLUTION, Test for carbidopa and levodopa)



Standard solution

Conditions

System	: Primaide (HITACHI)
Guard Column	: InertSustain C18 (GL Sciences Inc.) (5 μm, 20 x 3.0 mm I.D.)
Column Cat. No.	: 5020-19549
Column	: InertSustain C18 (GL Sciences Inc.) (3.5 μm, 50 x 4.6 mm I.D.)
Column Cat. No.	: 5020-90676
Eluent	: CH ₃ OH/Buffer*=10/90 , v/v
Flow Rate	: 1.0 mL/min
Col. Temp.	: 40 °C
Detection	: UV 280 nm (Primaide 1410 UV)
Injection Vol.	: 10 μL
Sample	: Standard in 0.1N HCl

Analyte:

1. Levodopa 66.6 µg/mL
2. Carbidopa 16.6 µg/mL

Relative retention times

Levodopa : 0.52

Carbidopa : 1.0

RSD of

the peak area of 1 (%) (n=6) : 0.16 (≤ 2.0)

the peak area of 2 (%) (n=6) : 0.19 (≤ 2.0)

* : Dissolve 1.8 g of sodium phosphate, monobasic, anhydrous in 900 mL of water. Add 2 mL of phosphoric acid, and dilute with water to 1000 mL.