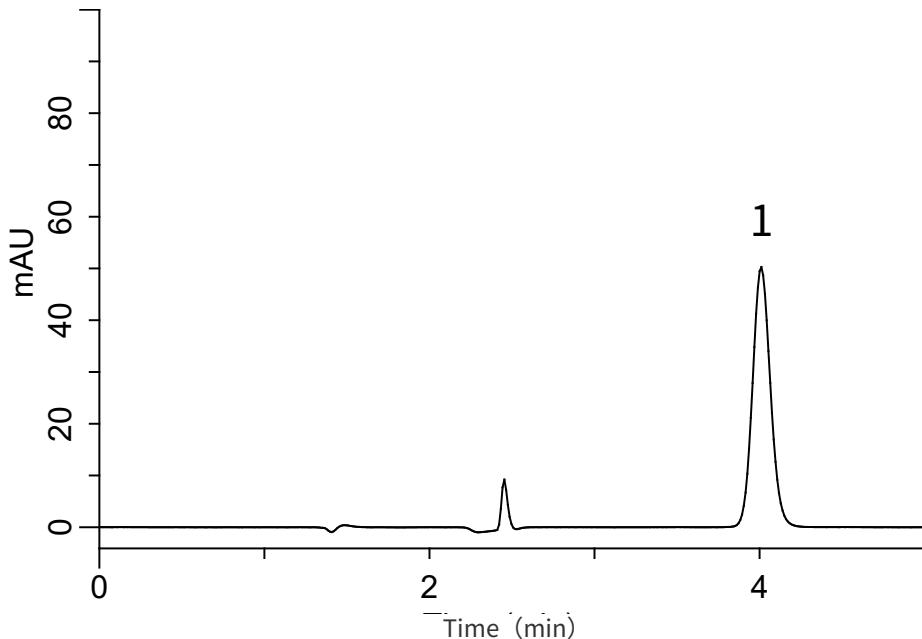


Analysis of Methotrexate

(Under the Condition of the draft for the Japanese Pharmacopoeia,
Methotrexate Tablets)

Data No. LB415-0894



Conditions

System	: GL7700 HPLC system
Column	: Inertsil ODS-4 (5 µm, 150 x 4.0 mm I.D.)
Column Cat. No.	: 5020-03935
Eluent	: A) CH ₃ CN B) Buffer* A/B = 11/89, v/v
Flow Rate	: 0.85 mL/min
Col. Temp.	: 25 °C
Detection	: UV 302 nm (PD7752 PDA Detector)
Injection Vol.	: 50 µL
Sample	: Standard

Analyte:

1. Methotrexate	2.5 mg/L
Theoretical plate number	: 6,616 ($\geq 3,000$)
Tailing factor	: 1.11 (≤ 1.5)
RSD of the area (%) (n = 6)	: 0.06 (≤ 1.0)

*Dissolve 27.22 g of potassium dihydrogen phosphate in 1,000 mL of water (Solution A).

Dissolve 4.3 g of sodium hydroxide in 100 mL of water (Solution B).

Mix 250 mL of Solution A and 29 mL of Solution B.

Add water to make 1,000 mL.