

Analysis of Tranexamic acid

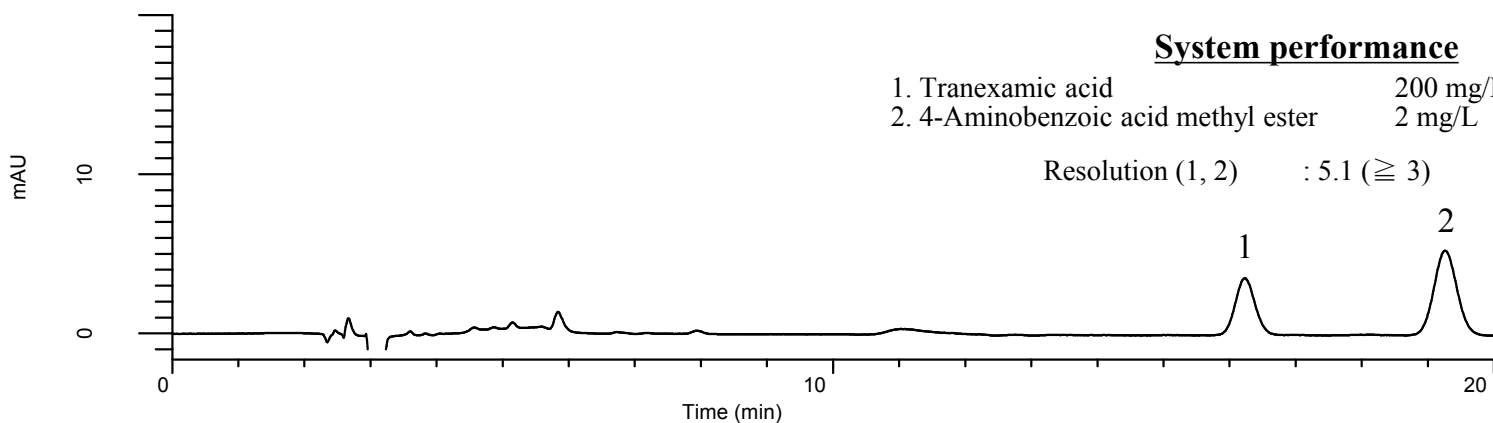
(Under the Condition of the Japanese Pharmacopoeia, Tranexamic acid Tablets)

Data No. LB452-0919

System performance

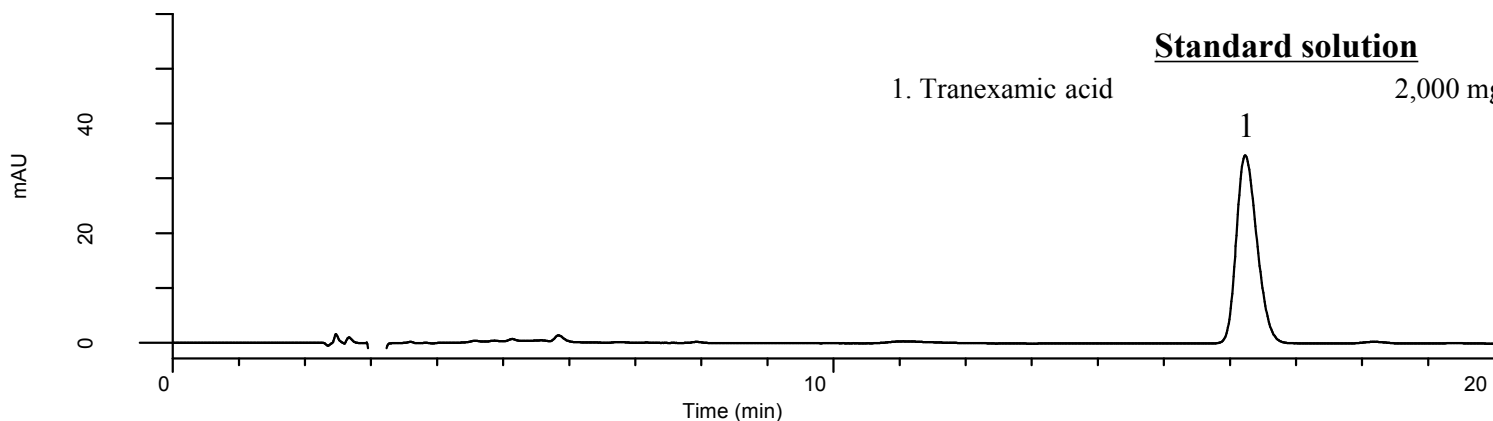
1. Tranexamic acid 200 mg/L
2. 4-Aminobenzoic acid methyl ester 2 mg/L

Resolution (1, 2) : 5.1 (≥ 3)



Standard solution

1. Tranexamic acid 2,000 mg/L



Conditions

System : GL7700 HPLC system
Column : InertSustain AQ-C18
(5 μ m, 250 x 6.0 mm I.D.)
Column Cat. No. : 5020-89760
Eluent : A) CH₃OH
B) Buffer*
A/B = 40/60, v/v
Flow Rate : 1.45 mL/min
Col. Temp. : 35 °C
Detection : UV 220 nm (PD7752 PDA Detector)
Injection Vol. : 30 μ L
Sample : Standard

*Dissolve 11.0 g of anhydrous sodium dihydrogen phosphate in 500 mL of water, and add 5 mL of triethylamine and 1.4 g of sodium lauryl sulfate. Adjust pH 2.5 with phosphoric acid, add water to make 600 mL.

Analyte:

1. Tranexamic acid

RSD of the peak area (%) (n=6) : 0.07 (≤ 1.0)

【NOTE】

- 1) Fully equilibrate the column prior to the analysis. Fully equilibrate the column with eluent for at least 24 hrs at 1 mL/min.
- 2) Prepare the eluent at time of use, otherwise the retention time may shift.