

### Analysis of Tranexamic acid

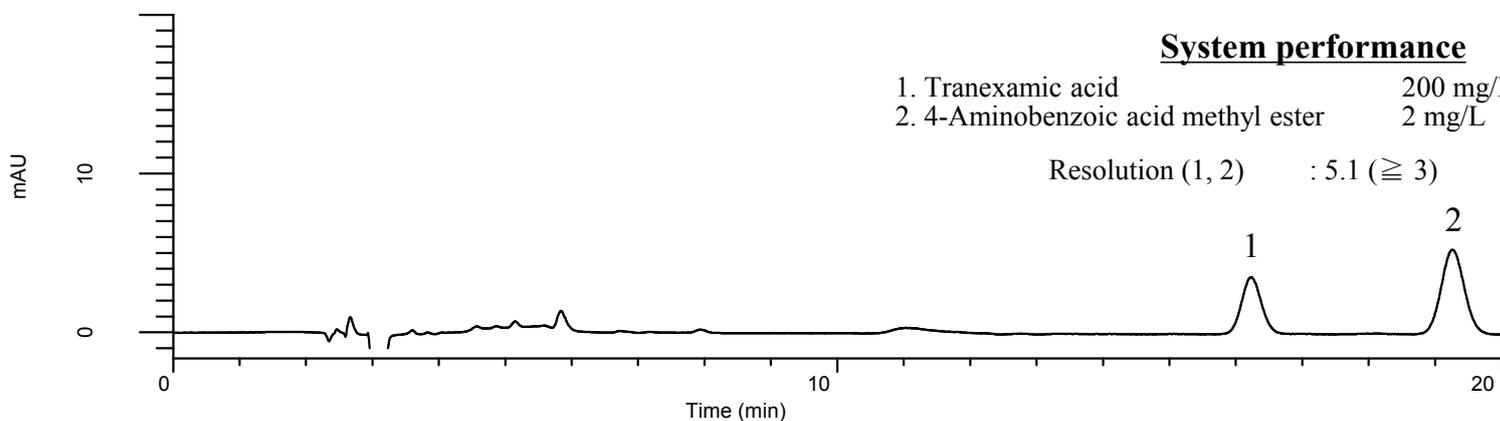
(Under the Condition of the Japanese Pharmacopoeia, Tranexamic acid Tablets)

Data No. LB452-0919

#### System performance

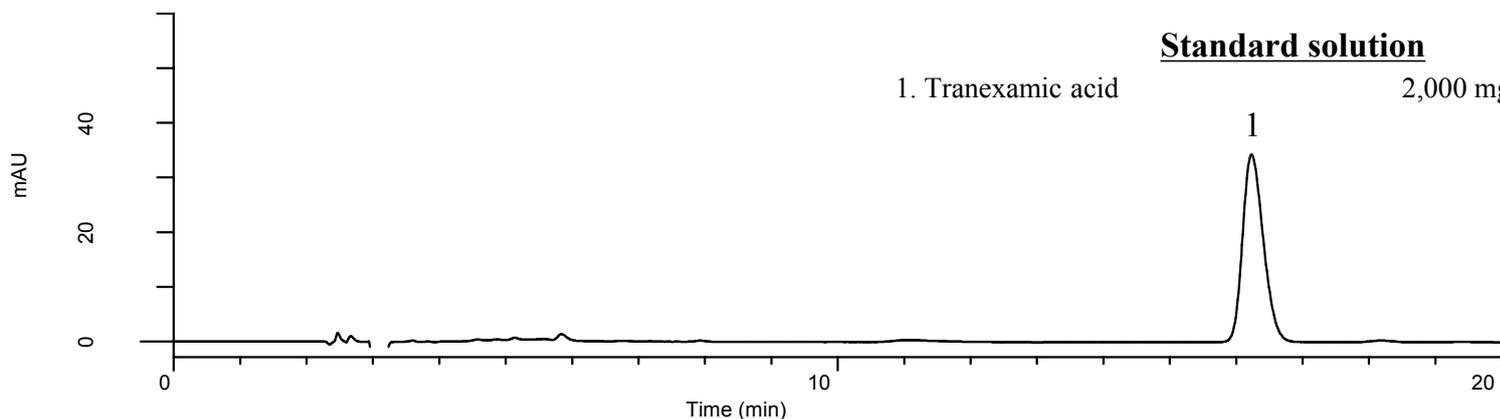
1. Tranexamic acid 200 mg/L  
2. 4-Aminobenzoic acid methyl ester 2 mg/L

Resolution (1, 2) : 5.1 ( $\geq 3$ )



#### Standard solution

1. Tranexamic acid 2,000 mg/L



#### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain AQ-C18  
(5  $\mu$  m, 250 x 6.0 mm I.D.)  
**Column Cat. No.** : 5020-89760  
**Eluent** : A) CH<sub>3</sub>OH  
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  $\mu$  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 ( $\leq 1.0$ )

#### 【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.