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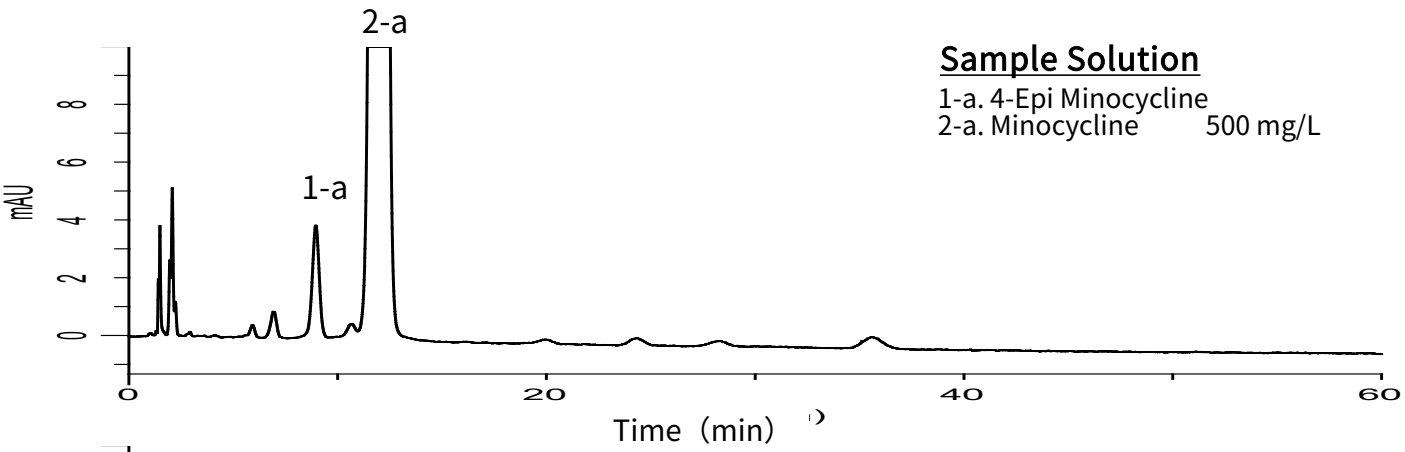
Analysis of Minocycline Hydrochloride

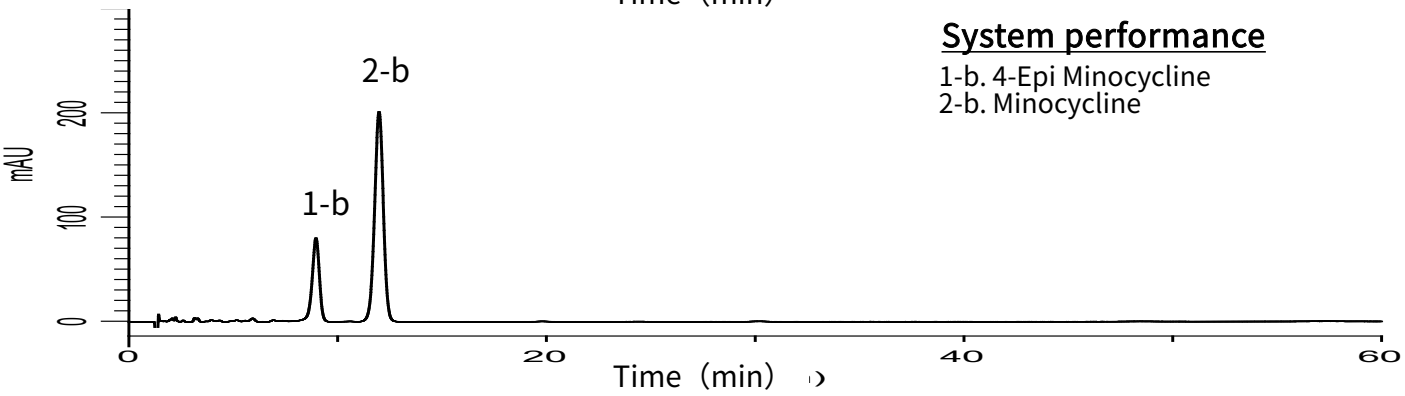
(Under the Condition of the Japanese Pharmacopoeia 17th edition)

Data No. LB483-0894



Sample Solution

1-a. 4-Epi Minocycline
2-a. Minocycline 500 mg/L



System performance

1-b. 4-Epi Minocycline
2-b. Minocycline

Conditions

System	:	GL7700 HPLC system
Column	:	InertSustainSwift C8 (5 µm, 150 x 4.6 mmI.D.)
Column Cat. No.	:	5020-88331
Eluent	:	Buffer*
Flow Rate	:	1.4 mL/min
Col. Temp.	:	25 °C
Detection	:	UV 280 nm (PD7752 PDA Detector)
Injection Vol.	:	20 µL
Sample	:	Standard

Analyte:

1. 4-Epi Minocycline
2. Minocycline

Resolution (1, 2) : 4.38 (≧ 2.0)

Pressure: about 18 MPa

※Adjust to pH 6.5 of a mixture of a solution of ammonium oxalate monohydrate (7 in 250), N,Ndimethylformamide and 0.1 mol/L disodium dihydrogen ethylenediamine tetraacetate TS (11:5:4) with tetrabutylammonium hydroxide TS.

0.1 mol/L disodium dihydrogen ethylenediamine tetraacetate TS:
Dissolve 37.2 g of disodium dihydrogen ethylenediamine tetraacetate dihydrate in water to make 1000 mL.

Tetrabutylammonium hydroxide TS:
A solution containing 13 g/dL of tetrabutylammonium hydroxide.

GL Sciences