L-column3 Application Data Sheet for LC

Application No. L3044

Loxoprofen sodium tablet

Loxoprofen sodium is a popular non-steroidal anti-inflammatory drug used widely in Japan. The 18th edition of the Japanese Pharmacopoeia utilizes HPLC in the determination method of loxoprofen sodium tablets. Upon testing with L-column 3, it has been confirmed that all the requirements mentioned in the system suitability criteria were met

Key words : Loxoprofen sodium , C18, ODS, Non-steroidal anti-inflammatory drugs, NSAIDs, Japanese Pharmacopoeia
Column : *L-column3 C18* (USP category: L1)

[Analytical conditions]
Column : *L-column3 C18* (5 μm, 12 nm); 6.0 mm I.D. × 150 mm L.; Cat. No. 822090
Eluent : $CH_3OH/H_2O/CH_3COOH$/Triethylamine (600/400/1/1 v/v/v/v)
Flow rate : 0.9 mL/min
Temperature : 40℃
Detection : UV 222 nm
Injection volume : 10 μL
System : Agilent 1260

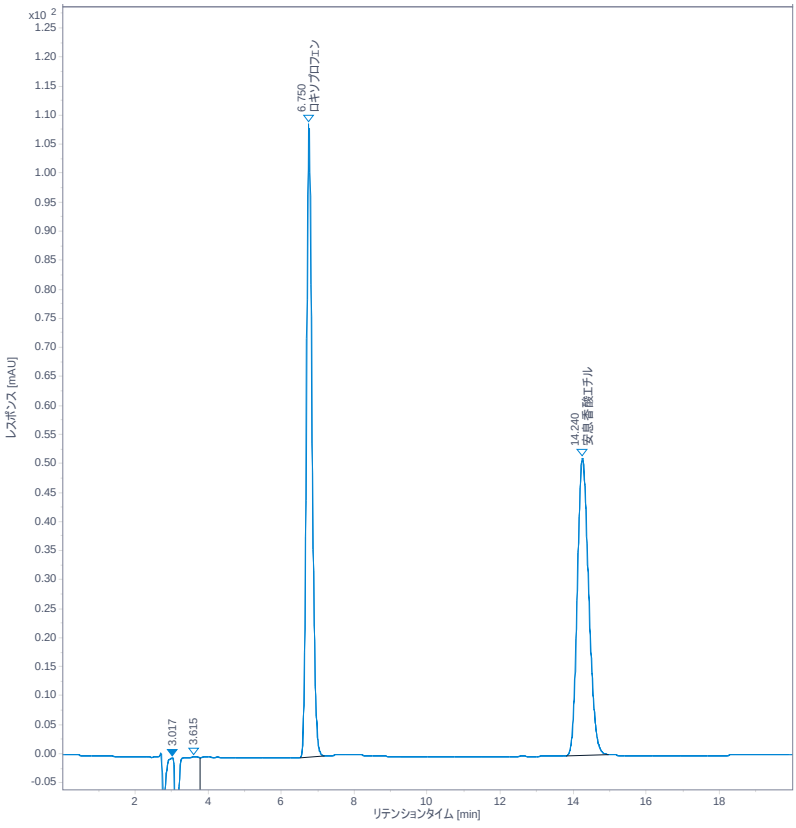
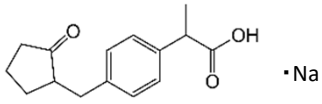


Fig. 1 Chromatogram of standard solution for assay of loxoprofen sodium tablets

Sample:
1. Loxoprofen sodium (60 mg/L)



2. Ethyl benzoate (150 mg/L)

Sample solvent: CH_3CN/H_2O (6/4)

Results of system suitability test of Loxoprofen

System suitability requirements		Results	Judgement
Resolution (Loxoprofen and Ethyl benzoate)	≧ 10.0	17.7	Passed
System suitability	≧ 1.0%	0.1	Passed

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