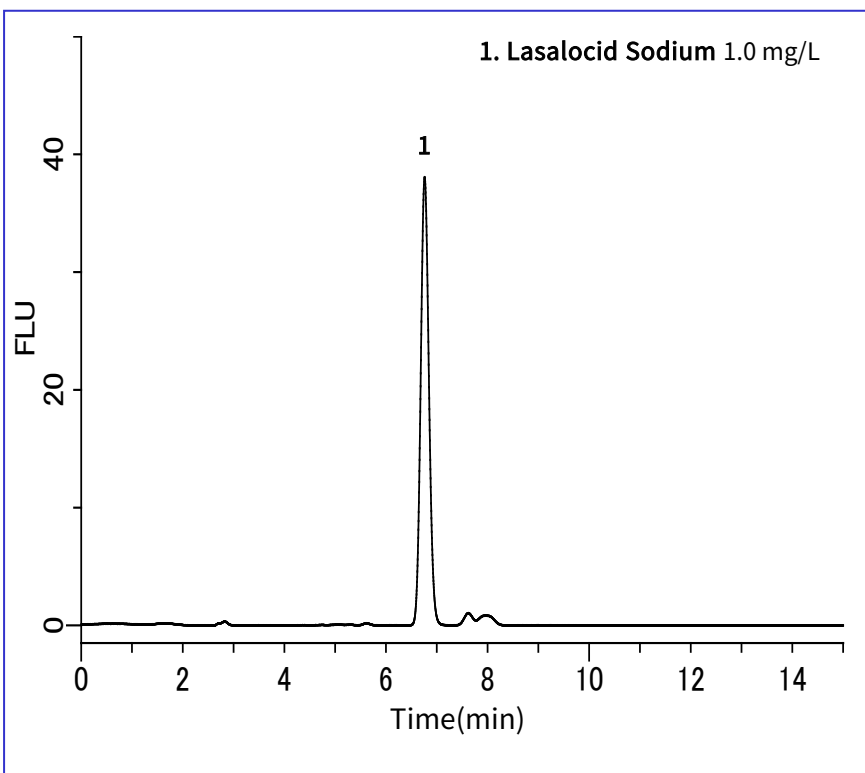


This year, we developed an analytical method for lasalocid sodium, a polyether antibiotic. In a previous report, we introduced a simultaneous analysis of polyether-based antibiotics using a post-column HPLC method. These compounds are considered difficult to analyze by post-column methods. However, unlike other polyether antibiotics, lasalocid is a compound with native fluorescent that can be readily measured using a fluorescence detector. In this report, we analyzed the results according to the method described in the "Feed Analysis Standards" to obtain excellent results.

(K. Suzuki)

Example: Measurement of standard



HPLC conditions

Column : Inertsil ODS-SP
(5 μ m, 250 x 4.6 mm I.D.)

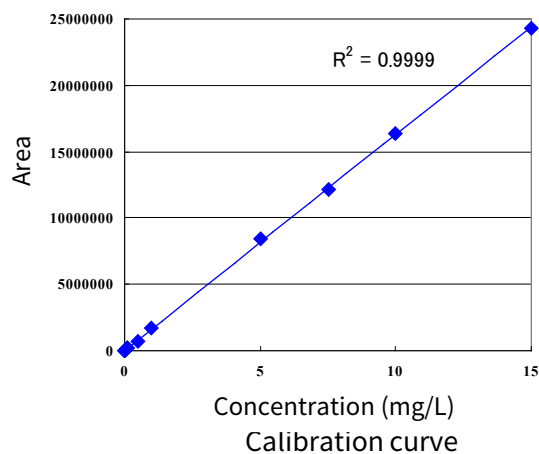
Eluent : A) CH₃OH
B) 20 mM phosphate buffer
A/B = 90/10 v/v, 1.0mL/min

Temperature : 40 °C

Detector : FL Ex 310 nm Em 420 nm

Injection volume : 20 μ L

*Phosphate buffer: Dissolve 2.72 g of potassium dihydrogen phosphate in 1 L of ultrapure water, and adjust the pH to 3.0 with phosphoric acid.



Measurement example

Example of pretreatment

Feed

- 5.0 g
- Grind

Extraction

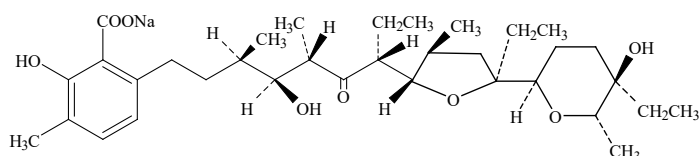
- Methanol 100 mL
- Stir for 30 min.

Filtration

- FILTRATION
- Dilute the filtrate to 100 mL.
- Filter through a 0.45 μ m chromatography disk.

HPLC

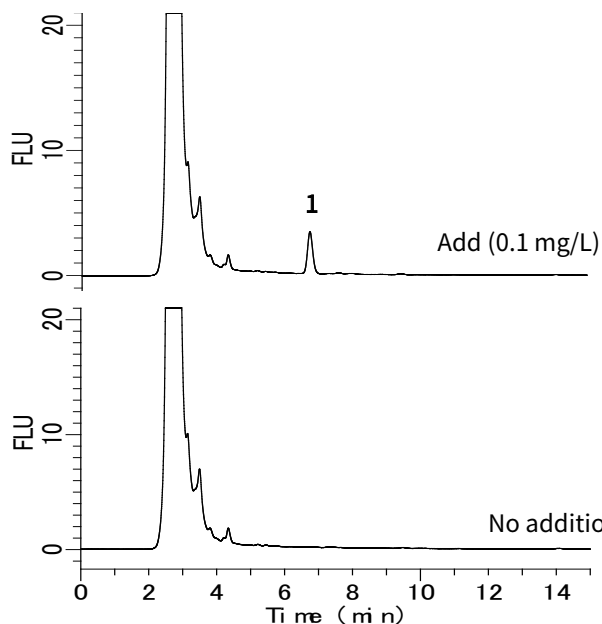
Structural formula



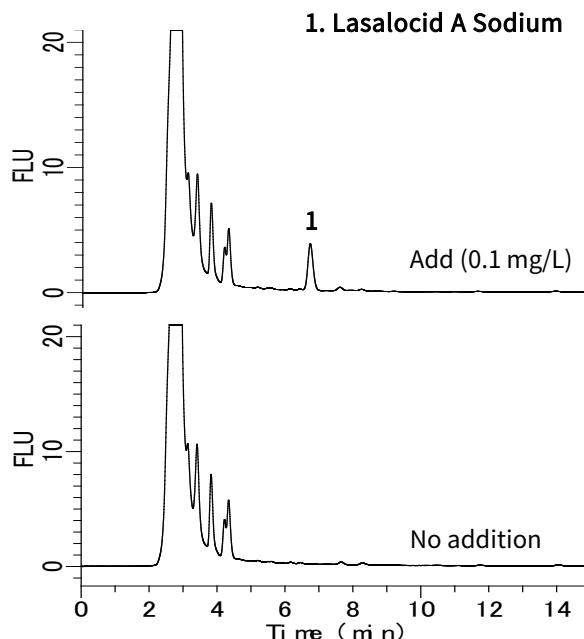
Lasalocid Sodium

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.

Feed A extract



Feed B extract



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GL Sciences Inc. Japan

22-1 Nishishinjuku 6-chome
Shinjuku-ku, Tokyo
163-1130, Japan

Phone: +81-3-5323-6620
Fax: +81-3-5323-6621
Email: world@glsc.co.jp
Web: www.glsciences.com

GL Sciences Inc. USA

4733 Torrance Blvd. Suite 255
Torrance, CA 90503
USA

Phone: +1-310-265-4424
Fax: +1-310-265-4425
Email: info@glsciencesinc.com
Web: www.glsciencesinc.com

GL Sciences B.V.

Dillenburgstraat 7C
5652AM, Eindhoven
The Netherlands

Phone: +31-40-254-9531
Email: info@glsciences.eu
Web: www.glsciences.eu

GL Sciences (Shanghai) Limited

Tower B, Room 2003
Far East International Plaza
No.317 Xianxia Road, Changning District
Shanghai, China 200051

Phone: +86-21-62782272
Email: contact@glsciences.com.cn
Web: www.glsciences.com.cn



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