

CoreFocus Report

No.101

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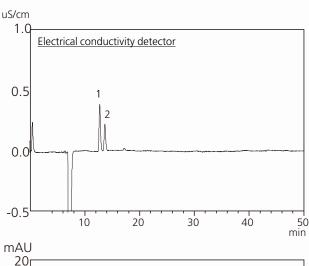
Ion-exclusion

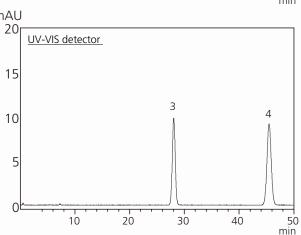
Shim-pack Series

Shim-pack[™] SCR-102H

Analysis of Organic Acids and Furfurals

Keywords: biomass, fuels, bioethanol, fermentation





- 1. Formic acid
- 2. Acetic acid
- 3. 5-Hydroxymethylfurfural
- 4. Furufural (10 mg/L each)

System : Organic acid analysis system
Column : Shim-pack SCR-102H

: Shim-pack SCR-102H (300 mm L. x 8.0 mm I.D.), P/N : 228-17893-91

Guard column : Guard column SCR-102H

(50 mm L. x 6.0 mm I.D.), P/N: 228-17924-91

Mobile phase : 5 mmol/L Perchloric acid aq. solution

Flowrate of mobile phase : 0.8 mL/min

pH buffering solution : 5 mmol/L Perchloric acid containing 20 mmol/L Bis-Tris and 0.1 mmol/L EDTA

Flow rate of

pH buffering solution : 0.8 mL/min

Column temp. : 35 °C

Detection 1 : Electrical co

Detection 1 : Electrical conductivity detector (CDD-10Avp)

(Formic acid, acetic acid) : UV-VIS detector (SPD-20AV) at 275 nm

(5-hydroxymethylfurfural, furfural)

: 10 µL

Source : Application News L485 (JP, ENG)

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Detection 2

Injection vol.

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