

BioEthanol Fermentation 39HRS 6-43-31

Column: Rezex™ ROA-Organic Acid H+ (8%), LC Column 300 x 7.8 mm, Ea

Dimensions: 300 x 7.8 mm ID

Order No: 00H-0138-K0

Elution Type: Isocratic

Eluent A: 0.005N Sulfuric Acid

Gradient Profile:	Step No.	Time (min)	Pct A
1	0	100	

Flow Rate: 0.6 mL/min

Col. Temp.: 60 °C

Detection: Refractive Index (RI) @ (40 °C)

Detector Info: Shimadzu Prominence LC-20A System (LC-20AT pump, DGU-20A3 Membrane Degasser, SIL 20AC Autosampler, CTO-20A Column Oven, RID-10A Differential Refractive Index Detector, CBM-20A System Controller, Class-VP Chromatography Data System SecurityGuard™ Guard Cartridge System extends column lifetime.

Analyst Note:

- SecurityGuard Cartridges, Carbo-H 4 x 3.0mm, 10/Pk Part No.: AJ0-4490

- Holder Part No.: KJ0-4282

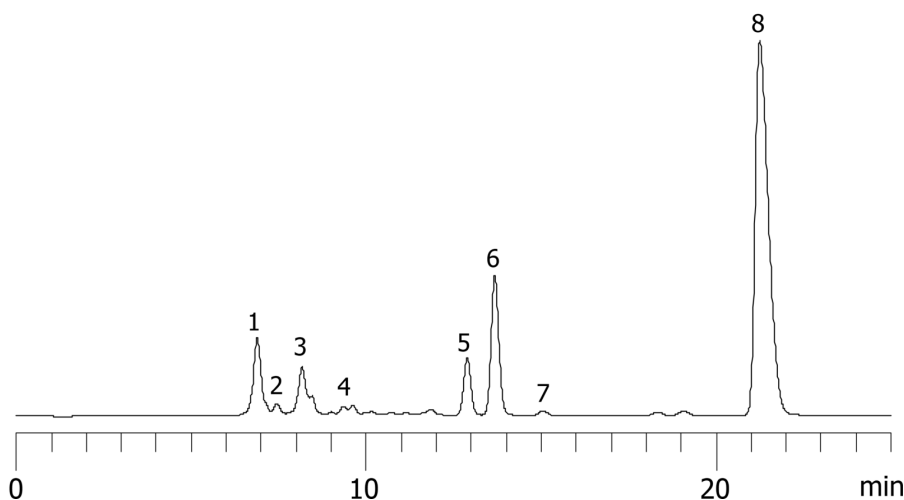
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REZEX™
HPLC COLUMNS for Carbohydrates, Oligosaccharides, and Organic Acid Analysis



Products used in this application:

REZEX™



ANALYTES:

- | | | |
|----------|-------------|--------------------------|
| 1 | Dp4+ | Retention Time: 6.8 min |
| 2 | Dp3 | Retention Time: 7.5 min |
| 3 | Maltose | Retention Time: 8.2 min |
| 4 | Glucose | Retention Time: 9.7 min |
| 5 | Lactic acid | Retention Time: 12.9 min |
| 6 | Glycerol | Retention Time: 13.6 min |
| 7 | Acetic acid | Retention Time: 15 min |
| 8 | Ethanol | Retention Time: 21.2 min |

