

Zebtron® GC Columns



2009 R&D 100
Award Recipient



guarantee

If Zebtron columns do not provide you with equivalent or better separations as compared to any other GC column of the same phase and comparable dimensions, return the column with comparative data within 45 days for a FULL REFUND.

ZB-Bioethanol

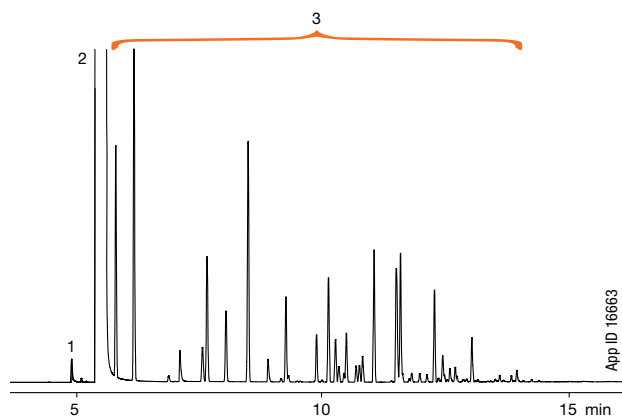
- Specially designed for fast and accurate bioethanol analysis
- Provides accurate and reproducible results for Certificate of Analysis (COA)
- Resolve methanol and ethanol from all other denaturant peaks
- Great resolution of fusel alcohols
- Allows for quick bake out in between runs to eliminate contaminants
- Temperature Limits: -60 to 340/360 °C (Isothermal/TPGC)



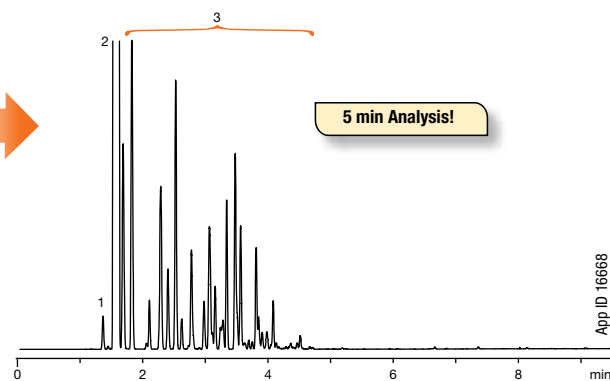
Applications

- Bioethanol
- Alcohol
- Fusel Alcohols

Determination of Denatured Bioethanol: ASTM Method D 5501



Column: Zebtron ZB-1
Dimensions: 100 meter x 0.25 mm x 0.50 µm
Part No.: 7MG-G001-17
Injection: Split 50:1 @ 300 °C, 1 µL
Carrier Gas: Helium @ 35 cm/sec (constant flow)
Oven Program: 45 °C for 7 min to 255 °C @ 30 °C/min for 6 min
Detector: FID @ 300 °C
Instrument: Shimadzu® GC-2010 with Flame Ionization
Sample: 1. Methanol
 2. Ethanol
 3. Denaturant



Column: Zebtron ZB-Bioethanol
Dimensions: 15 meter x 0.25 mm x 1.00 µm
Part No.: 7EG-G020-22
Injection: Split 50:1 @ 300 °C, 1 µL
Carrier Gas: Hydrogen @ 25 cm/sec (constant flow)
Oven Program: 55 °C for 1.7 min to 260 °C @ 40 °C/min (hold 2.67 min)
Detector: FID @ 300 °C
Instrument: Shimadzu® GC-2010 with Flame Ionization Detection and AOC-20i Automatic Liquid
Sample: 1. Methanol
 2. Ethanol
 3. Denaturant



For Bioethanol fermentation monitoring, use Rezex-ROA HPLC columns, see p. 244



Contact Phenomenex or your local Phenomenex distributor for additional GC products and applications.

Ordering Information

Zebtron ZB-Bioethanol GC Columns

ID(mm)	df(µm)	Temp. Limits °C	Part No.	Price
15-Meter				
0.25	1.00	-60 to 340/360	7EG-G020-22	
30-Meter				
0.25	1.00	-60 to 340/360	7HG-G020-22	

Note: If you need a 5 in. cage, simply add a (-B) after the part number, e.g., 7HG-G020-22-B. Some exceptions may apply. Agilent 6850 and some SRI and process GC systems use only 5 in. cages. See p. 91.