

Zebbron Essentials for FAMEs

Smart Alternatives for the FAMEs Traditionalist



- ZB-88
- ZB-23



Buy	Save
1 Zebbron FAME Column (ZB-FAME, ZB-88 or ZB-23)	15% OFF your column order
2 Zebbron FAME Columns (combine ZB-FAME, ZB-88 or ZB-23)	25% OFF your column order
+ Save 20% off your Zebbron Liner order when you bundle with any Zebbron FAME Column (ZB-FAME, ZB-88 or ZB-23)	

Expires: April 28, 2017
Offer Code: FAME17

Switch to Zebbron and SAVE!

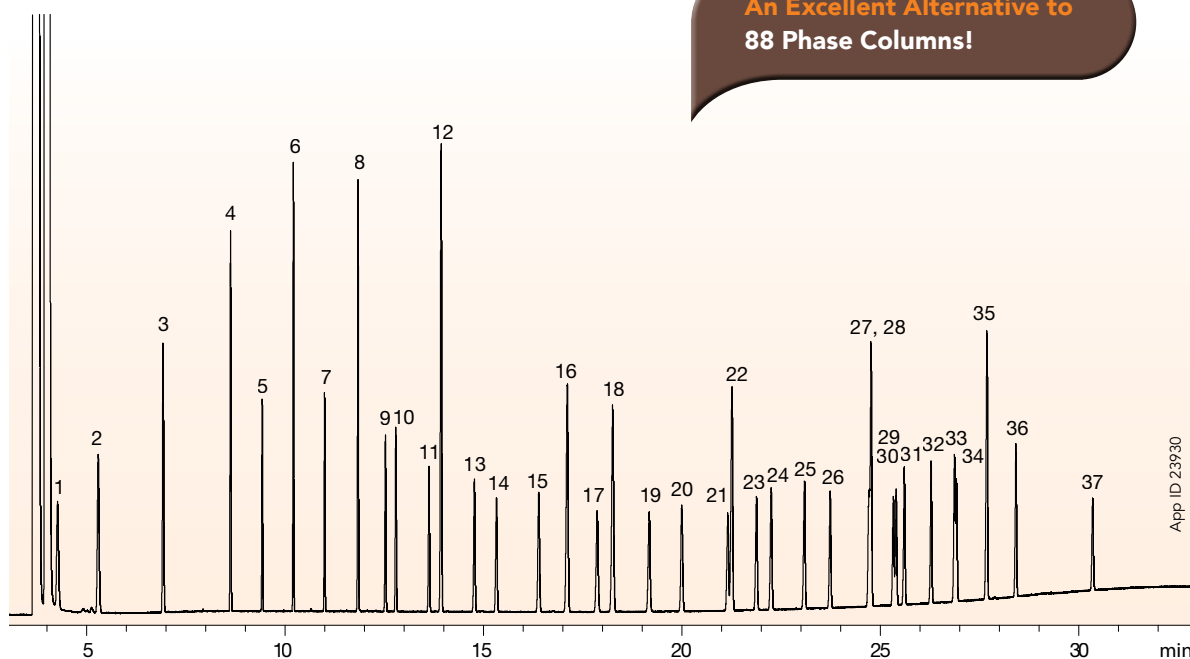
Zebtron™ ZB-88

For Olive Oil and Hydrogenated Oil Analysis

- Recommended alternative to Supelco® SP™-2560, Agilent® CP-Sil 88, Agilent HP-88, and Restek® Rt®-2560
- Traditional separation of cis/trans FAMES



37 FAME Mix



Make the Switch and SAVE!

**Zebtron
ZB-88**

vs.

**Agilent
CP-Sil 88**

100 meter x 0.25 mm x 0.20 µm

Column: Zebtron ZB-88

Dimensions: 100 meter x 0.25 mm x 0.20 µm

Part Number: 7MG-G037-10

Injection: Split 50:1 @ 250°C, 1 µL

Carrier Gas: Hydrogen @ 2 mL/min (constant flow)

Oven Program: 120°C for 1 min to 175°C @ 10°C/min for 10 min to 210°C @ 5°C/min for 5 min to 230°C @ 5°C/min for 5 min

Detector: FID @ 280°C

Sample:

1. C4:0	21. C18:3 cis 6,9,12
2. C6:0	22. C20:0
3. C8:0	23. C18:3 cis 9,12,15
4. C10:0	24. C20:1 cis 11
5. C11:0	25. C21:0
6. C12:0	26. C20:2 cis 11,14
7. C13:0	27. C22:0
8. C14:0	28. C20:3 cis 8,11,14
9. C14:1 cis 9	29. C20:3 cis 11,14,17
10. C15:0	30. C22:1 cis 13
11. C15:1 cis 10	31. C20:4 cis 5,8,11,14
12. C16:0	32. C23:0
13. C16:1 cis 9	33. C22:2 cis 13,16
14. C17:0	34. C20:5 cis 5,8,11,14,17
15. C17:1 cis 10	35. C24:0
16. C18:0	36. C24:1 cis 15
17. C18:1 trans 9	37. C22:6 cis 4,7,10,13,16,19
18. C18:1 cis 9	
19. C18:2 trans 9,12	
20. C18:2 cis 9,12	

Ordering Information

Zebtron ZB-88 GC Columns

Length (m)	ID (mm)	df (µm)	Temp. Limits °C	Part No.
30	0.25	0.20	0 to 250/260	7HG-G037-10
60	0.25	0.20	0 to 250/260	7KG-G037-10
100	0.25	0.20	0 to 250/260	7MG-G037-10

guarantee

If Zebtron GC columns do not provide you with equivalent or better separation as compared to any other GC column of the same phase and comparable dimensions, send in your comparative data within 45 days and keep the column for FREE!

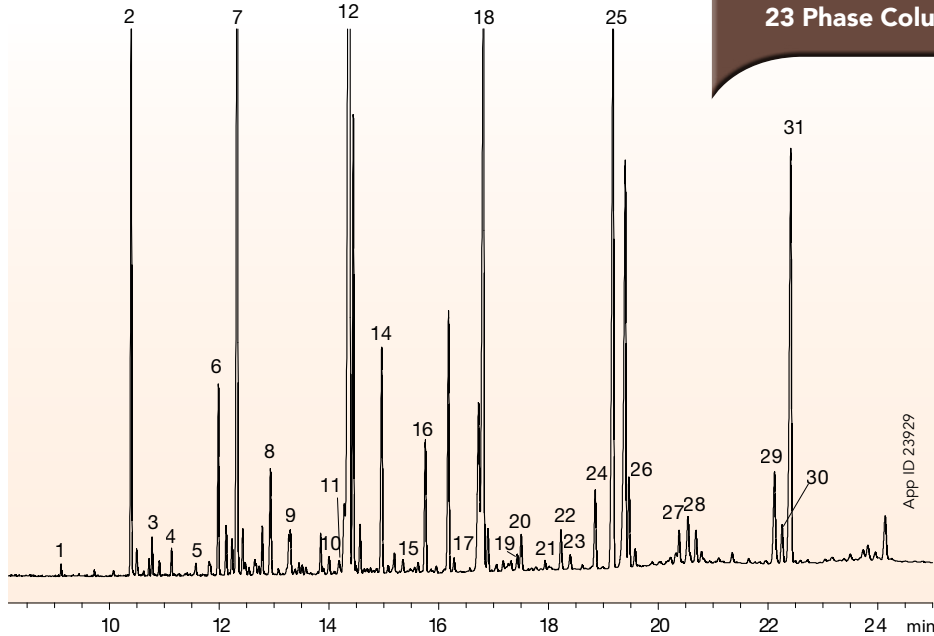
Zebtron™ ZB-23

For Omega-3 Fatty Acids and Fish Oil Testing

- Recommended alternative to Supelco® SP™-2330, Agilent® DB®-23, and Restek® Rtx®-2330
- Alternate selectivity well suited for marine oils



Unsaturated Fatty Acids from Marine Oil



An Excellent Alternative to 23 Phase Columns!

Make the Switch and SAVE!

Zebtron ZB-23
 vs.
 Supelco SP-2330
 vs.
 Restek Rtx-2330

60 meter x 0.25 mm x 0.20 μm
(60 meter x 0.25 mm x 0.25 μm for Zebtron ZB-23)

Column: Zebtron ZB-23
Dimensions: 60 meter x 0.25 mm x 0.15 μm
Part No.: 7KG-G039-05
Injection: Split 50:1 @ 250°C, 1 μL
Carrier Gas: Helium @ 33cm/s @ 50°C (constant flow)
Oven Program: 50°C for 1 min to 175°C @ 25°C/min to 230°C @ 4°C/min for 5 min
Detector: FID @ 280°C

- Sample:**
- | | |
|-----------------------|-------------------------------|
| 1. C12:0 | 21. C20:3 cis 8,11,14 |
| 2. C14:0 | 22. C20:4 cis 5,8,11,14 |
| 3. C14:1 cis 9 | 23. C20:3 cis 11,14,17 |
| 4. C15:0 | 24. C22:0 |
| 5. C15:1 cis 10 | 25. C20:5 cis 5,8,11,14,17 |
| 6. C16:0 | 26. C22:1 cis 13 |
| 7. C16:1 cis 9 | 27. C23:0 |
| 8. C17:0 | 28. C22:2 cis 13,16 |
| 9. C17:1 cis 10 | 29. C24:0 |
| 10. C18:0 | 30. C24:1 cis 15 |
| 11. C18:1 trans 9 | 31. C22:6 cis 4,7,10,13,16,19 |
| 12. C18:1 cis 9 | |
| 13. C18:2 trans 9,12 | |
| 14. C18:2 cis 9,12 | |
| 15. C18:3 cis 6,9,12 | |
| 16. C18:3 cis 9,12,15 | |
| 17. C20:0 | |
| 18. C20:1 cis 11 | |
| 19. C21:0 | |
| 20. C20:2 cis 11,14 | |

Ordering Information

Zebtron ZB-23 GC Columns				
Length (m)	ID (mm)	df (μm)	Temp. Limits °C	Part No.
15	0.25	0.25	40 to 250/260	7EG-G039-11
15	0.53**	0.50	40 to 230/240	7EK-G039-17
20	0.18	0.20	40 to 250/260	7FD-G039-10
30	0.25	0.15	40 to 250/260	7HG-G039-05
30	0.25	0.25	40 to 250/260	7HG-G039-11
30	0.32	0.25	40 to 250/260	7HM-G039-11
30	0.53**	0.50	40 to 230/240	7HK-G039-17
60	0.25	0.15	40 to 250/260	7KG-G039-05
60	0.25	0.25	40 to 250/260	7KG-G039-11
60	0.32	0.25	40 to 250/260	7KM-G039-11

** 0.53 mm ID columns are rated to 230/240 °C max operational temperature.



Zebron™
GC Columns

Zebron Essentials for FAMEs

Smart Alternatives for the FAMEs Testing Traditionalist

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