Analyze FAMEs and fatty acids on a single column

NEW Agilent DB-FATWAX Ultra Inert GC columns



Superior inertness for the challenging separation of fatty acids, and engineered for enhanced selectivity of fatty acid methyl esters

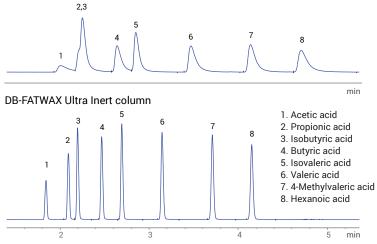
DB-FATWAX Ultra Inert (UI) is an application-specific WAX-type GC column ideal for the analysis of unsaturated and polyunsaturated fatty acid methyl esters (FAMEs) commonly found in fish oil and animal fat such as the Omega 3 and Omega 6 FAMEs. Due to the superior inertness and thermal stability of Agilent's proprietary ultra-inert technology, DB-FATWAX UI is also an ideal column choice for the analysis of challenging underivatized fatty acids.

Features:

- Individual testing with a FAME mixture to ensure reproducible FAME equivalent chain length (ECL) values
- Reliable column-to-column inertness performance
- Improved peak shape for challenging polar compounds, such as free fatty acids
- Polar phase; equivalent to USP G16
- Bonded and cross-linked phase is solvent rinseable, and tolerates aqueous injections

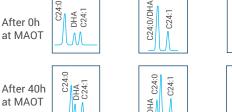
Superior inertness for analysis of underivatized free fatty acids

Competitor WAX column



Unique selectivity and thermal robustness for separation of FAMEs







DHA 224:1

Select the right column for your samples

Fatty Acids and FAMEs		Triglycerides		
DB-FATWAX Ultra Inert	DB-23	CP-Sil 88 for FAME/HP-88	Select FAME	CP-TAP CB/ChromSpher Lipids (LC)
 Free fatty acids, C4-C16 Nutritional labeling FAMEs Omega 3 and Omega 6 analysis Chain length/degree of unsaturation Superior inertness for difficult samples (i.e. food matrix) 	Fast separation of cis/trans isomers Most nutritional labeling FAMEs resolved in under 8 min. Lower cyanopropyl content than CP-Sil 88/HP-88 phases	Highly detailed analysis of positional cis/trans FAMEs As proposed in AOAC 996.06 and AOCS CE 1j-07 methods Ideal for CLA FAMEs and partially hydrogenated vegetable oils	Good choice for positional cis/trans FAMEs Alternative options to CP-Sil 88 for FAME/HP-88 selectivities	Mono-, di-, and triglyceride analysis Complementary techniques for enhanced selectivity for isomeric triglycerides Ideal for high-temperature applications

Column Selection by Type of Fatty Acid

Type of Fatty Acid	CP-FFAP CB	DB-FATWAX UI	DB-23	CP-Si FAME			CP-TAP CB for Triglycerides	ChromSpher Lipids (LC)
Short Chain Free Fatty Acids (C2-C6)	•	•						
Medium Chain Free Fatty Acids (C6-C16)	•	•						
Long Chain Free Fatty Acids (C16-C24)	•							
Omega 3 & 6 FAMEs		•	•			•		
FAMEs by degree of saturation		•						
FAMEs groups of cis and trans isomers			•			•		
FAMEs geometrical positional isomers					•	•		
Cholesterol and triglycerides							•	•

Column Selection by Type of Food

Type of Food	CP-FFAP CB	DB-FATWAX UI	DB-23		il 88 for E/HP-88	Select FAME	CP-TAP CB for Triglycerides	ChromSpher Lipids (LC)
Dairy products (e.g.: milk, butter, cheese)	•	•		(•	•	•	•
Fish oil		•		(•	•	•	•
Animal fat		•		(•	•	•	•
Omega 3 & 6		•			•			
Vegetable oils (Canola, Soybean, Olive, Palm, Corn)			•			•	•	•
Refined (hydrogenated) oils – e.g. deep-fried foods, baked goods				(•	•		
Margarines and shortenings					•	•	•	•



Learn how the Agilent DB-FATWAX Ultra Inert column efficiently separates challenging Fatty Acids and FAMEs.

www.agilent.com/chem/fatwax-ui

This information is subject to change without notice.

