

New! AT™-AquaWax

- Designed and Tested for Aqueous Injections
- Stable Bonded Polyethylene Glycol Phase
- Ideal for Food & Beverage Analysis
- Similar to DB™-Wax, DB™-Waxer, Rtx®-WAX, Stabilwax®, HP™-Wax, HP™-20M, HP™-INNOwax, ZB-Wax and Supelco-wax 10

Gas chromatographers have long feared injections of aqueous samples would damage their fused silica capillary columns. Polyethylene glycol (wax) columns in particular were suspect, especially if the splitless injection mode was required. Many would say that wax columns should not be used under such conditions. Alltech's new AT™-AquaWax capillary columns are designed for these types of rigorous analyses.

AT™-AquaWax Capillary Columns are coated with a bonded polyethylene glycol stationary phase using a process specifically designed to give maximum stability with aqueous injections. They are ideal for alcoholic beverage analysis, which is much more than determining the percent alcohol present. The quality of the flavor and aroma of an alcoholic beverage is often dependent on very small quantities of many components. Splitless injection is often required because components of interest are present at extremely low levels. AT™-AquaWax columns have the stability and inertness required for this demanding application.

AT™-AquaWax Columns

LENGTH	ID	FILM	TEMP. LIMITS	PART NO.	PRICE
30m	0.25mm	0.25µm	40/260°C	12437	
	0.32mm	0.25µm	40/260°C	12439	
60m	0.25mm	0.25µm	40/260°C	12447	
	0.32mm	0.25µm	40/260°C	12449	

New! AT™-AquaWax-DA Capillary Columns

- Designed and Tested for Aqueous Injections
- Stable Bonded Acid Modified Polyethylene Glycol Stationary Phase
- Ideal for the Analysis of Acidic Organic Compounds
- Eliminates the Need for Derivatization of Acidic Organic Compounds Prior to Analysis
- Similar to DB-FFAP, Stabilwax, HP-FFAP-DA, ZB-FFAP, SPB-1000 and Nukol

AT™-AquaWax-DA is a bonded nitroterephthalic acid modified polyethylene glycol stationary phase with the same stability to aqueous injections as AT™-AquaWax. It is ideal for the analysis of aqueous samples containing free fatty acids or other acidic organic compounds.

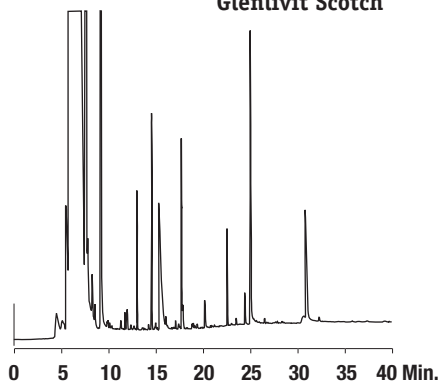
The analysis of acidic organic compounds typically requires sample derivatization before analysis. These compounds may be quickly and easily analyzed without derivatization if the proper polyethylene glycol (PEG) stationary phase is chosen. The AT™-AquaWax-DA stationary phase has been esterified with nitroterephthalic acid to produce a capillary column with the proper acidic character for the analysis of acidic organic compounds. Alltech's proprietary manufacturing process gives AT™-AquaWax-DA columns unmatched stability for the analysis of aqueous samples.

AT™-AquaWax-DA Columns

LENGTH	ID	FILM	TEMP. LIMITS	PART NO.	PRICE
30m	0.25mm	0.25µm	40/250°C	14537	
	0.32mm	0.25µm	40/250°C	14539	
60m	0.25mm	0.25µm	40/250°C	14547	
	0.32mm	0.25µm	40/250°C	14549	

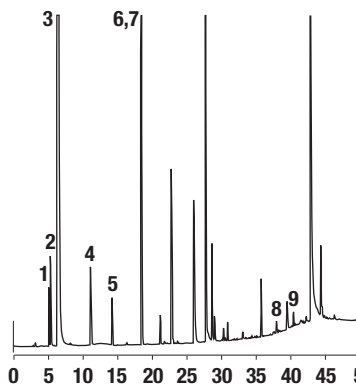
Contact your Alltech office or distributor for current or local prices.

Glenlivet Scotch



Column: Heliflex® AT™-AquaWax, 60m x 0.25mm x 0.25µm (Part No. 12447)
Temp: 40°C (1 min hold) to 100°C at 30°C/min, then to 200°C (20 min hold) at 5°C/min
Carrier Gas: Helium at 22 cm/sec
Detector: FID

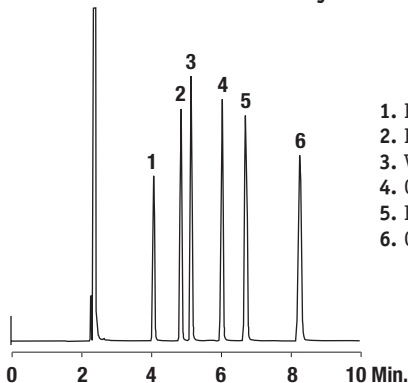
Red Wine Spiked with off Flavor



1. Ethyl Acetate
2. Methanol
3. Ethanol
4. 1-Propanol
5. Isobutanol
6. 2-Methyl-1-butanol
7. 3-Methyl-1-butanol
8. 4-Ethylguaiaicol
9. 4-Ethylphenol

Column: Heliflex® AT™-AquaWax-DA, 60m x 0.25mm x 0.25µm (Part No. 14547)
Temp: 35°C (10 min hold) to 220°C at 6°C/min
Carrier Gas: Helium at 25 cm/sec
Detector: FID

Free Fatty Acids



1. Propionic acid
2. Butyric acid
3. Valeric acid
4. Caproic acid
5. Heptanoic acid
6. Caprylic acid

Column: Heliflex® AT™-AquaWax-DA, 30m x 0.25mm x 0.25µm (Part No. 14537)
Temp: 180°C
Carrier Gas: Helium at 22 cm/sec
Detector: FID

© Copyright 2003 Alltech Associates, Inc.