Trace solvents in absolute ethanol

Application Note

BioPharma

Authors

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Introduction

Separation of trace impurities in ethanol in a pharmaceutical application uses gas chromatography with an Agilent FactorFour VF-1701ms column.
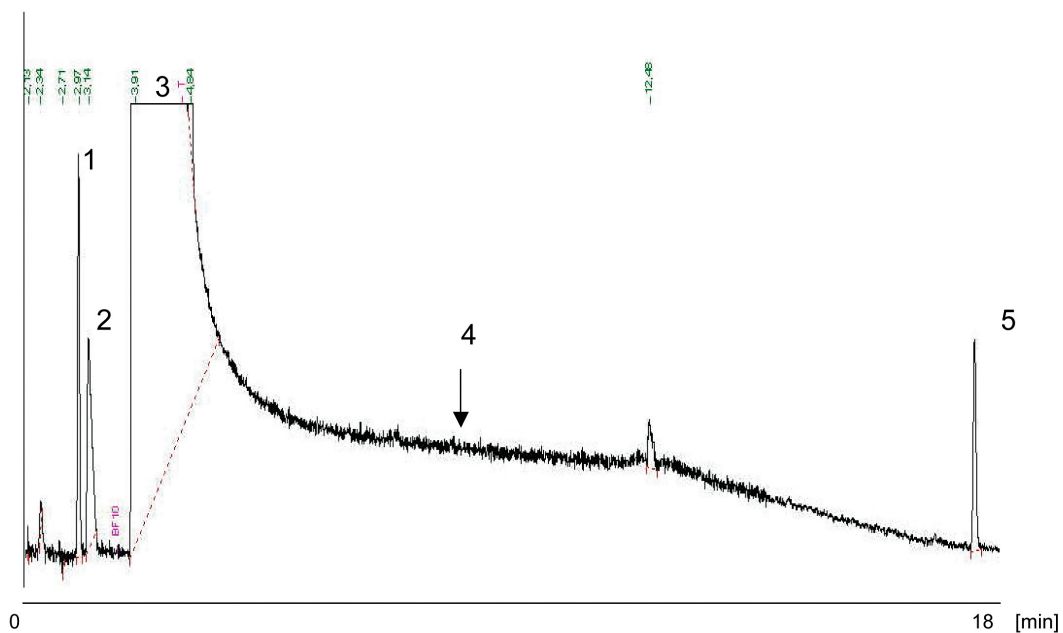
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Conditions

Technique	:	GC-capillary
Column	:	Agilent FactorFour VF-1701ms, 0.32 mm x 30 m fused silica (df = 1.0 μm) (Part no. CP9163)
Temperature	:	40 °C (12 min) → 240 °C, 10 °C/min
Carrier Gas	:	Helium, 1 mL/min
Injector	:	Split, 1:20, T = 200 °C
Detector	:	FID T = 280 °C
Sample	:	ppm in ethanol

Peak identification

1. acetaldehyde
2. methanol
3. ethanol
4. benzene
5. 4-methyl-pentan-2-ol

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