

CoreFocus
Report
No.362

GC

FID

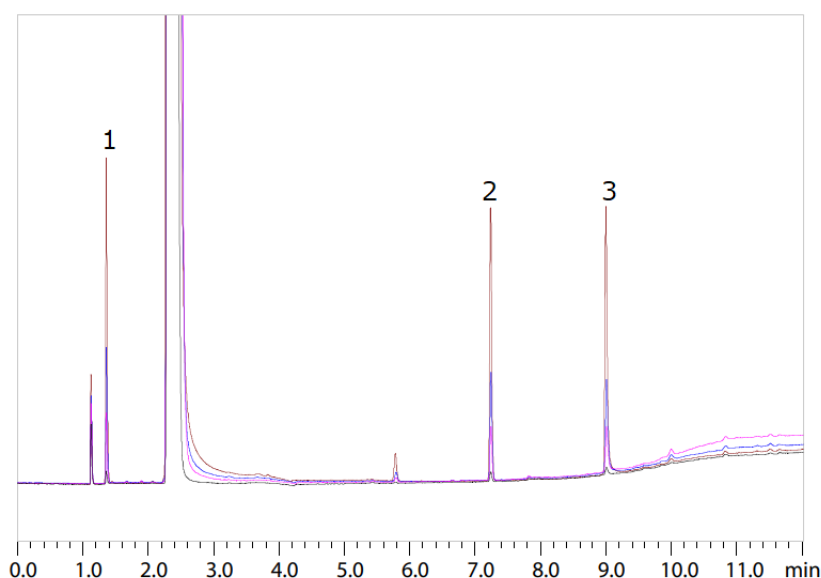
AOC

SH Series

SH-PolarWax

Analysis of Residual Ethylene Oxide in Medical Devices

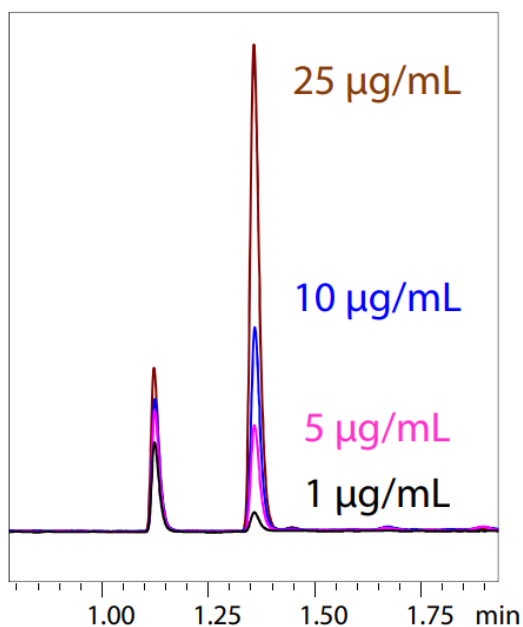
Keywords: EOG sterilization



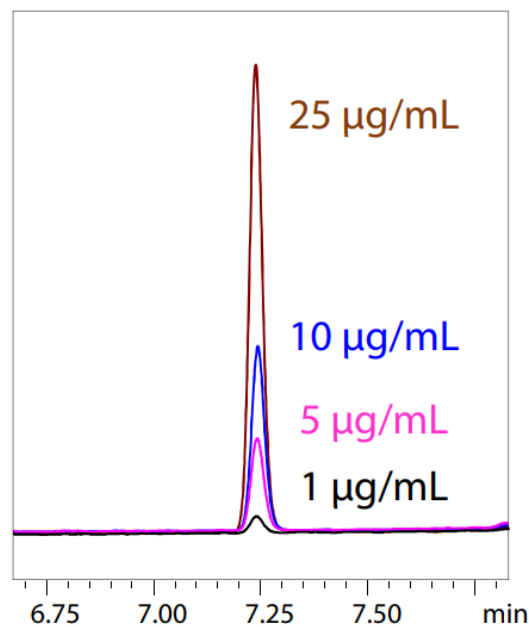
1. Ethylene oxide (EO)
2. Ethylene chlorohydrin (ECH)
3. Ethylene glycol (EG)

Model	: Nexis™ GC-2030 / AOC-20i Plus
Detector	: FID-2030 Flame Ionization Detector
Column	: SH-PolarWax (30 m x 0.53 mm I.D. df = 1.00 μm), P/N: 221-75979-30
Column Temp.	: 60 °C (3 min) - 20 °C/min - 200 °C (10 min) Total 20 min
Injection Temp.	: 250 °C
Injection Mode	: Split
Split Ratio	: 1:3
Carrier Gas	: N ₂
Carrier Gas Controller	: Constant Linear Velocity
Linear Velocity	: 40 cm/s
Detector Temp.	: 250 °C
Detector Gas	: H ₂ 32 mL/min, Air 200 mL/min
Makeup Gas	: N ₂ 24 mL/min
Injection Volume	: 0.5 μL
Syringe	: Elastic Syringe, AOC, P/N: 221-49548*

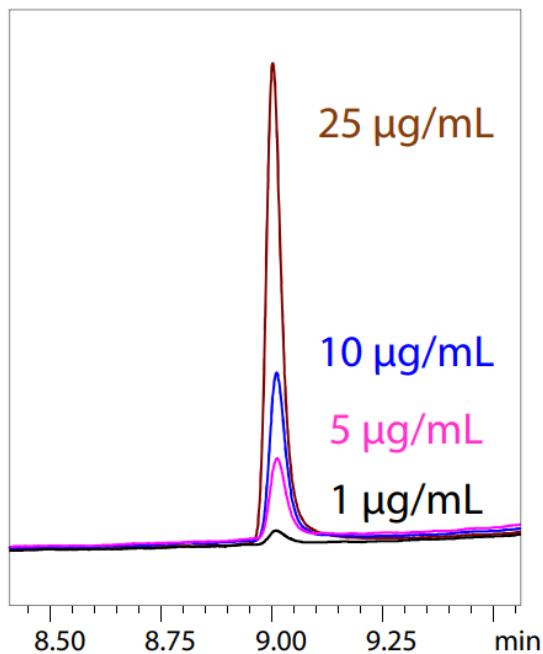
* Using an elastic syringe for AOC (P/N: 221-49548) equipped with a plunger made of titanium enables stable sample introduction.



Chromatogram of
EO



Chromatogram of ECHx



Chromatogram of
EG

Source : Application News 01-00139 ([JP](#), [ENG](#))

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Related Products

Some products may be updated to newer models.

HPLC Column Solutions – Reversed phase and Normal phase –
Shim-pack

➤ SH-PolarWax

Related Solutions

➤ Clinical Research

➤ 臨床研究

➤ Price Inquiry

➤ Product Inquiry

➤ Technical Service /
Support Inquiry

➤ Other Inquiry