

**CoreFocus** Report

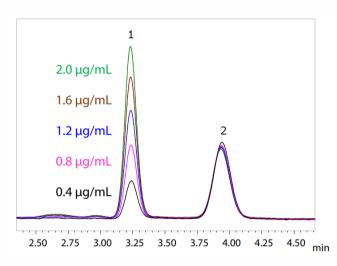
No.363

GC FID HS SH Series

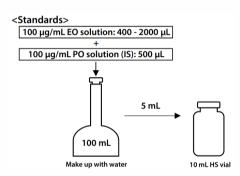
### **SH-PolarWax**

## **Analysis of Residual Ethylene Oxide in Medical Devices**

#### **Keywords: EOG sterilization**



- 1. Ethylene oxide (EO)
- 2. Propylene oxide (PO), Internal standard



Sample Preparation Method for Standards

Model : Nexis™ GC-2030

Detector : FID-2030 Flame Ionization Detector

Headspace Smapler : HS-20

Analytical Column : SH-PolarWax (30 m x 0.53 mm I.D. df =  $2.00 \mu m$ ), P/N: 227-36258-01

Column Temp. :  $40 \,^{\circ}\text{C}$  (5 min) -  $30 \,^{\circ}\text{C/min}$  -  $200 \,^{\circ}\text{C}$  (20 min) Total 30.33 min

Injection Mode : Split Split Ratio : 1:20

Carrier Gas Controller : Constant Linear Velocity

 $\begin{array}{ll} \mbox{Linear Velocity} & : 30 \mbox{ cm/s } (\mbox{N}_2) \\ \mbox{Detector Temp.} & : 250 \mbox{ }^{\circ} \mbox{C} \\ \end{array}$ 

Detector Gas : H<sub>2</sub> 32 mL/min, Air 200 mL/min

Makeup Gas : N<sub>2</sub> 24 mL/min Injection Volume : 1 mL

<HS>

Oven Temp. : 70 °C Sample Line Temp. : 75 °C : 75 °C Transfer Line Temp. Vial Volume 10 mL Vial Shaking Level : 3 Vial Equilibrating Time : 30 min Vial Pressurization Time · 1 min Vial Pressure 100 kPa Loading Time : 1 min Needle Flush Time : 8 min

Source : Application News 01-00140 (JP, ENG)

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