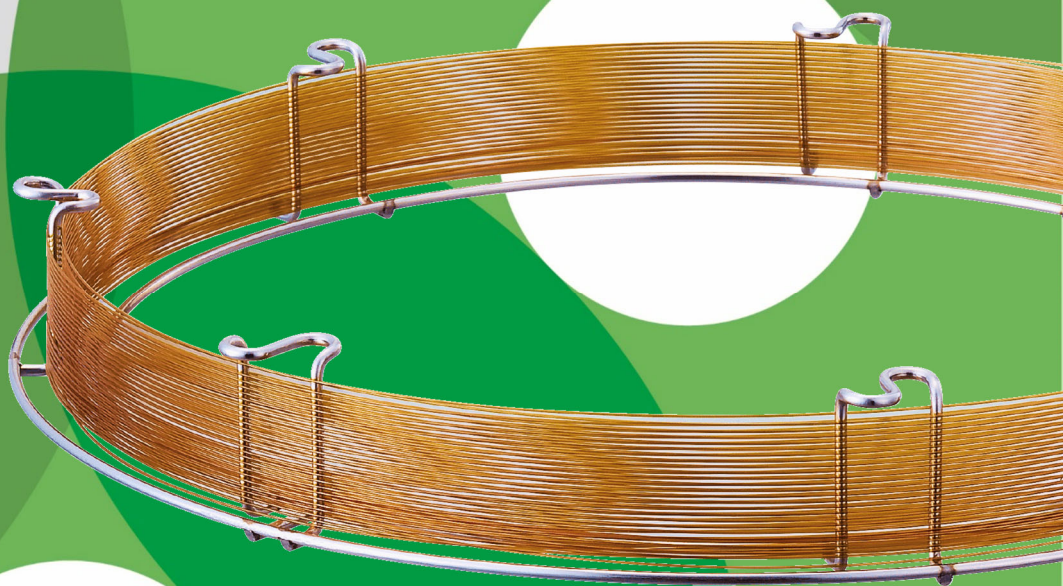


GC•GC/MS Capillary Columns

Dedicated column for ethanol analysis specified in pharmacopoeias

InertCap 624 for Ethanol



Dedicated column for USP "Alcohol", EP "Ethanol (96 percent)", JP "Ethanol", "Anhydrous Ethanol" and "Ethanol for Disinfection"

InertCap 624 for Ethanol

InertCap 624 for Ethanol is a dedicated column for the following pharmacopoeia tests.

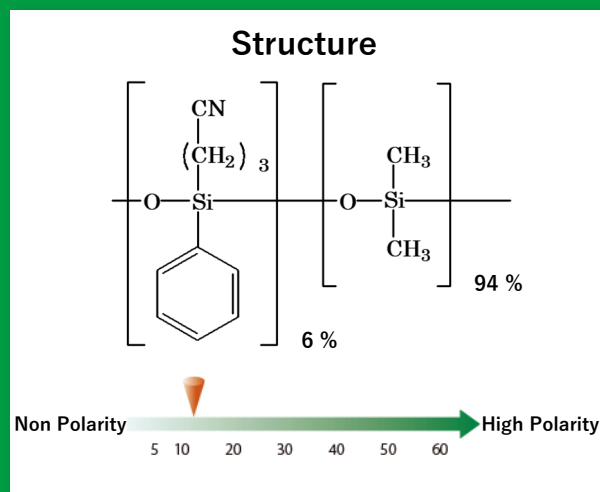
USP: Alcohol

EP: Ethanol (96 percent)

JP: Ethanol, Anhydrous Ethanol and Ethanol for Disinfection

InertCap 624 for Ethanol stably yields the resolution of 1.5 between acetaldehyde and methanol in ethanol specified in the pharmacopoeias.

- 6 % Cyanopropylphenyl - 94 % Dimethylpolysiloxane
- USP Phase G43
- Medium Polarity
- Cross-Linked
- Dedicated column for USP "Alcohol", EP "Ethanol (96 percent)", JP "Ethanol", "Anhydrous Ethanol" and "Ethanol for Disinfection"



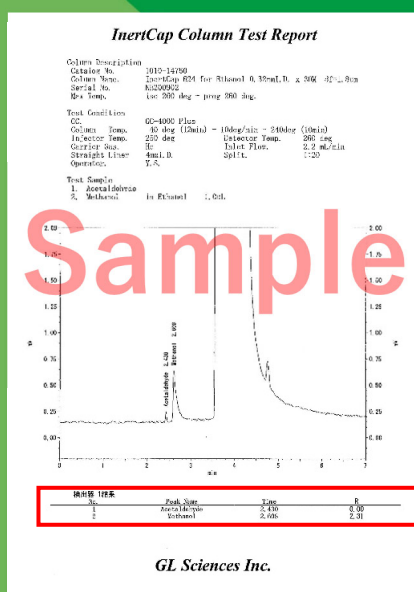
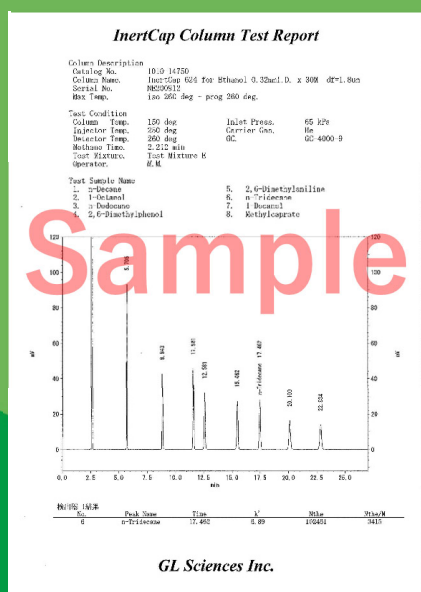
Description	I.D. (mm)	Length (m)	Film Thickness (μm)	Max. Temperature	Cat.No.
InertCap 624 for Ethanol	0.32	30	1.80	iso.260 °C - prog.260 °C	1010-14750

Shipped with a test report on the ethanol analysis of the pharmacopoeias.

The GC and GC/MS capillary columns of GL Sciences includes a pre-shipment inspection report that describes the number of theoretical plates (N) and coating efficiencies (CE) to guarantee stable and high quality. In addition to the regular pre-shipment inspection report, InertCap 624 for Ethanol is shipped with a test report on the ethanol analysis of the pharmacopoeias, where the resolution between acetaldehyde and methanol is described.

Pre-shipment inspection report

Test report on the ethanol analysis of the pharmacopoeias*

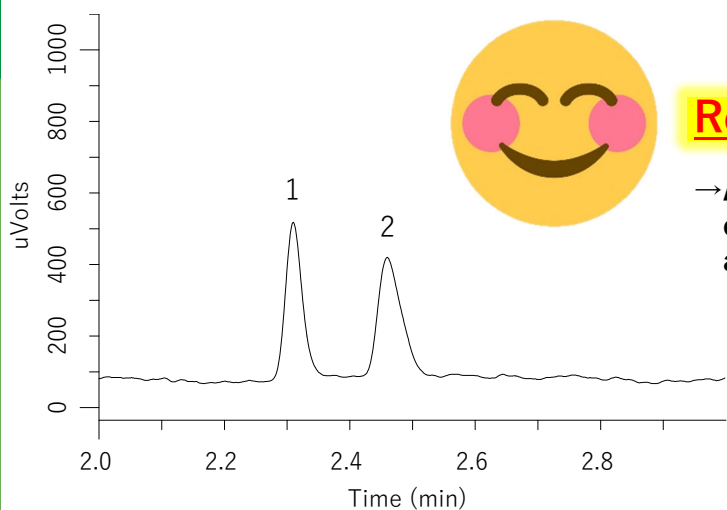


The resolution between acetaldehyde and methanol is described!

* : The test report on the ethanol analysis only guarantees the resolution at the shipment. Peak intensities are not guaranteed.

Comparison of InertCap 624 for Ethanol and competitors under the conditions of the ethanol analysis

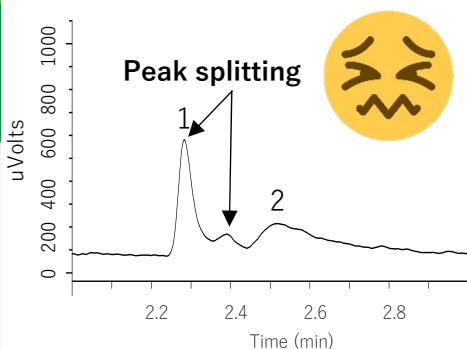
InertCap 624 for Ethanol



Column A

Resolution : N/D

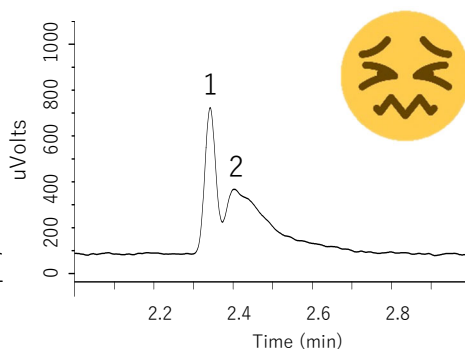
→ Resolution below requirement



Column B

Resolution : 0.52

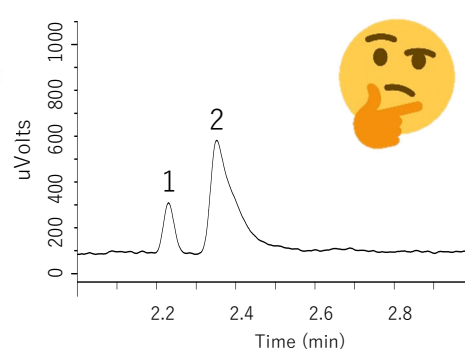
→ Resolution below requirement



Column C

Resolution : 1.57

→ Resolution just above requirement. Continued use may be difficult.



System : GC-FID
 Col. Size : 0.32 mm I.D. × 30 m df = 1.80 μm
 Col. Temp. : 40 °C (12 min) - 10 °C/min - 240 °C (10 min)
 Carrier Gas : He, 35 cm/sec
 Injection : 200 °C, Split 20:1
 Recommended liner(Cat.No.3001-35354)
 Detection : 280 °C
 Sample Size : 1 μL

1. Acetaldehyde
 2. Methanol

Use the recommended liner to maximize the performance of InertCap 624 for Ethanol

It is advised to use the recommended liner for ethanol analysis specified in pharmacopoeias such as USP, EP and JP. All the data above were obtained with the recommended liner. See p.4 for the recommended liners.



< Information > Recommended liner

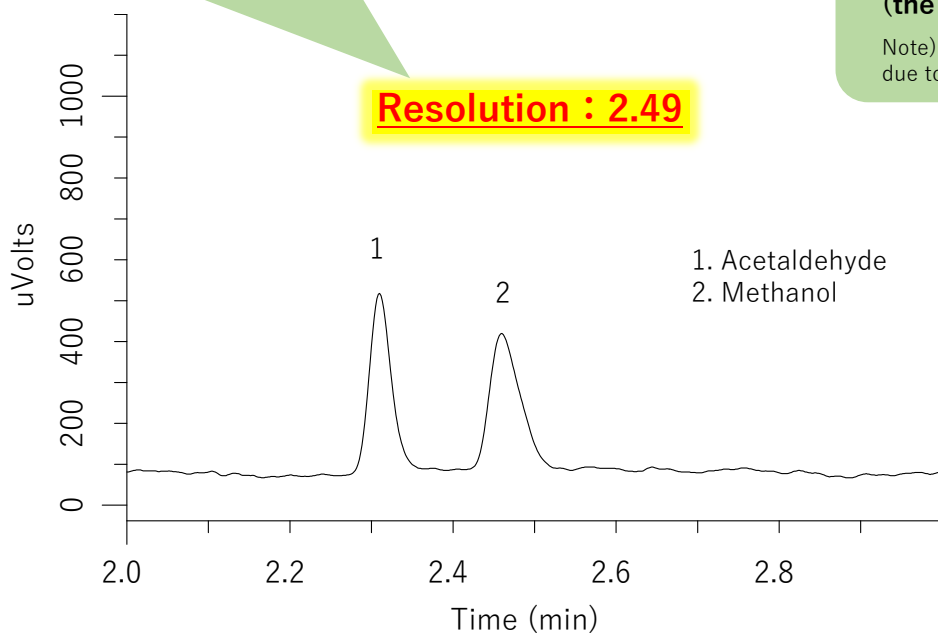
▶ With a recommended liner (Cat.No.3001-35354)

The resolution between acetaldehyde and methanol in ethanol is

much higher than 1.5

(the requirement in the pharmacopoeias).

Resolution : 2.49

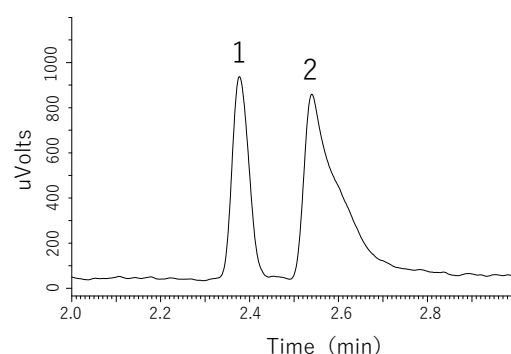


▶ With a focus liner

The resolution between acetaldehyde and methanol in ethanol is just above 1.5 (the requirement of the pharmacopoeias).

Note) Resolution may not be achieved due to inter-device differences or other reasons.

Resolution : 1.62



The separation performance of InertCap 624 for Ethanol is maximized with the recommended liners.

品名	Compatible Models*	Qty.	Cat.No.
Straight Liner for Split/Splitless Inlet	GC from GL Sciences or Agilent	1 pc	3001-35354
Split liner	Shimadzu GC-2010	1 pc	3001-16138

* : Contact us for other models.

Note 1) For details of the recommended liner, please contact.

Note 2) The above data were acquired using GC-4000 Plus and InertCap 624 for Ethanol.

Note 3) Please note that the recommended GC liners do not guarantee sufficient resolution on all GC systems.

The resolution may differ depending on your GC system.

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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