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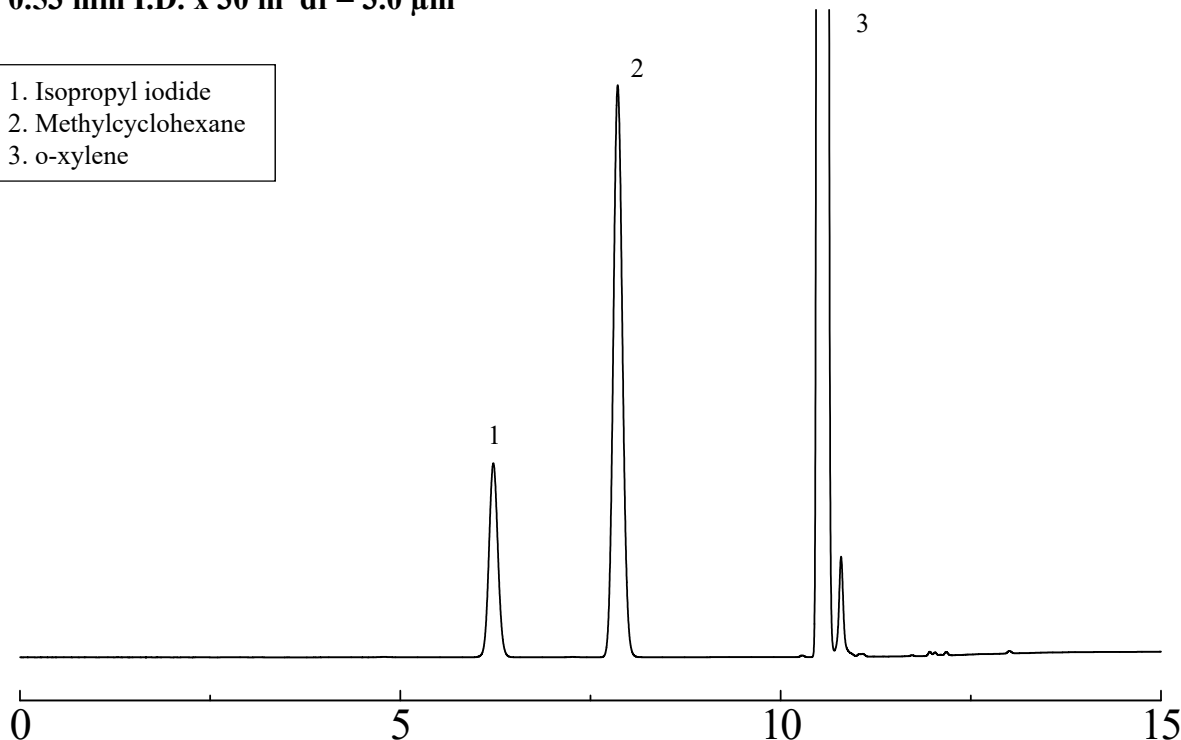
Analysis of hydroxypropylcellulose (JP)

~Purity System suitability~

Hydroxypropylcellulose is used as an additive in foods and drugs. Shown below is an analysis of hydroxypropylcellulose performed using ULBON HR-1 capillary column in accordance with the Japanese Pharmacopoeia.

ULBON HR-1**0.53 mm I.D. x 30 m df = 3.0 μ m**

- 1. Isopropyl iodide
- 2. Methylcyclohexane
- 3. o-xylene

**System suitability**

Column performance: relative retention time(1 to 2) 0.79, resolution(1,2) 7.5

(Isopropyl iodide and methylcyclohexane are eluted in this order with the relative retention time of isopropyl iodide to methylcyclohexane being about 0.8, and with the resolution between the peaks of isopropyl iodide and methylcyclohexane being not less than 2.0.)

Column: ULBON HR-1 0.53 mm I.D. x 30 m df = 3.0 μ m
Sample: Isopropyl iodide, Methylcyclohexane in o-xylene
Column temp.: 40°C (3 min) - 10 °C/min - 100 °C - 50 °C/min - 250 °C (3 min)
Carrier gas: 52 cm/sec He
Split rate: 1 : 50

Sample volume: 2.0 μ L
Detector: FID 280°C
Injection port temp.: 180°C

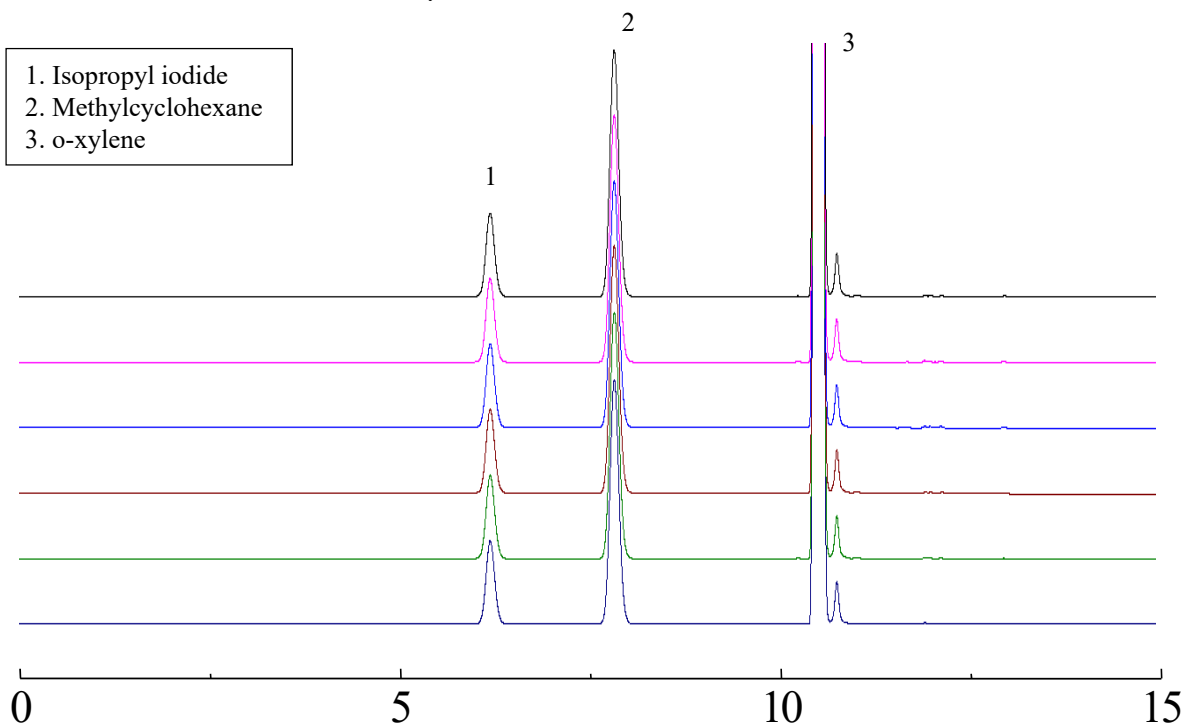
**SHINWA CHEMICAL INDUSTRIES LTD.**50-2 Kagekatsu-cho, Fushimi-ku
Kyoto 612-8307 Japan

TEL: +81-75-621-2360 FAX: +81-75-602-2660

E-mail: info@shinwa-cpc.co.jpWebsite: <http://shinwa-cpc.co.jp/en/>

ULBON HR-1**0.53 mm I.D. x 30 m df = 3.0 μ m**

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2. Methylcyclohexane
3. o-xylene

**System suitability**

Column repeatability: The relative standard deviation is 0.19%.

(When the test is repeated 6 times, the relative standard deviation of the response factor F is not more than 2.0%)

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■ Capillary column specifications and price ■

Product name	Price
ULBON HR-1 0.53 mm I.D. x 30 m df = 3.0 μ m	99,000 JPY

The price shown above is applicable as of October 24th, 2017. Please contact us for pricing.

Please feel free to contact us with questions related to analyses.

Please be aware that specifications and prices are subject to change without prior notification.