

SHINWA EXPRESS

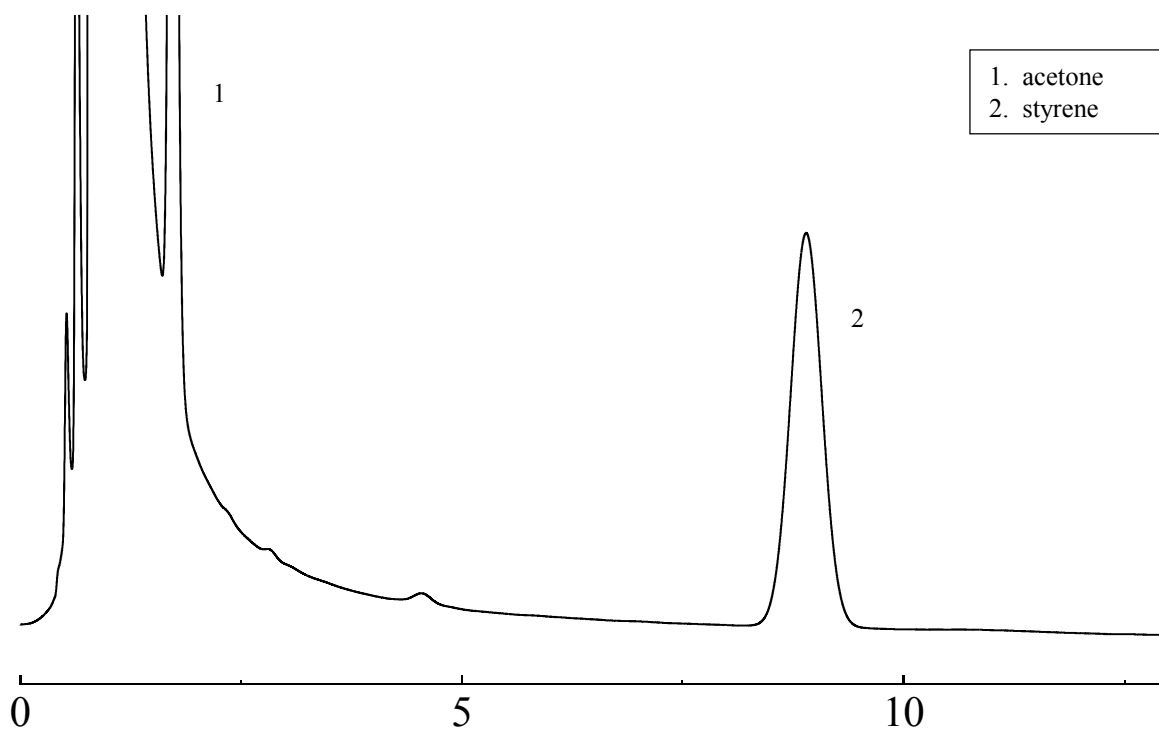
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J u l y

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Analysis of polystyrene sulfonate calcium using Shinwasorb

Polystyrene sulfonate calcium is used for treatments of hyperkalemia due to renal failure. Shown below is an example of valproate sodium using a column packed with a Shinwasorb packing material under Japanese Pharmacopoeia.

PEG20M 7.5% Shinwasorb-S 80/100

**System suitability**

Column performance: The number of theoretical plates for the peak of styrene is over 2764.
The symmetry coefficient is 1.03.
(The number of theoretical plates for the peak of styrene not less than 800,
the symmetry coefficient between 0.8 and 1.2 are acceptable.)

Column: 2.1 m x 3.2 mm I.D. Glass
Sample: acetone, styrene
Column temp.: 90°C
Injection port temp.: 200°C

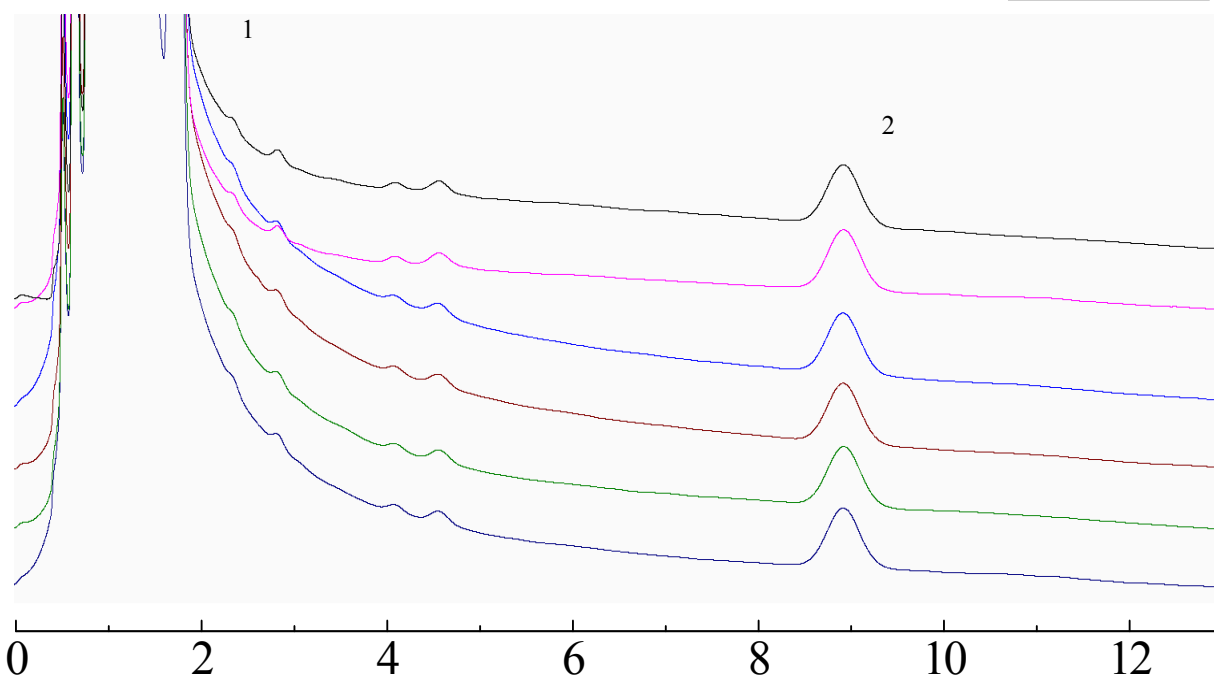
Sample volume: 5.0 µL
Carrier gas: 60 mL/min N₂
Detector: FID 200°C

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PEG20M 7.5% Shinwasorb-S 80/100

1. acetone
2. styrene



System suitability

Column performance: relative standard deviation for rate of peak area (styrene) is 0.7%
(The relative standard deviation of the ratio of the sum of the peak areas not more than 5.0% is acceptable.)

Column: 2.1 m x 3.2 mm I.D. Glass
Sample: acetone, styrene
Column temp.: 90°C
Injection port temp.: 200°C

Sample volume: 5.0 µL
Carrier gas: 60 mL/min N₂
Detector: FID 200°C

■ Packing material specifications and price ■

Product name	Weight	Price
PEG 20M 7.5% Shinwasorb-S 80/100	25 g	18,500 JPY

■ Packed column specifications and price ■

Product name	Column material	Dimensions	Price
PEG 20M 7.5% Shinwasorb-S 80/100	Glass (For GC-2014 systems)	2.1 m x 3.2 mm I.D.	58,100 JPY

Prices for stainless columns other than for Shimadzu GC systems will differ from that shown above. The prices shown above are accurate as of July 25th, 2016. 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.