

# SHINWA EXPRESS

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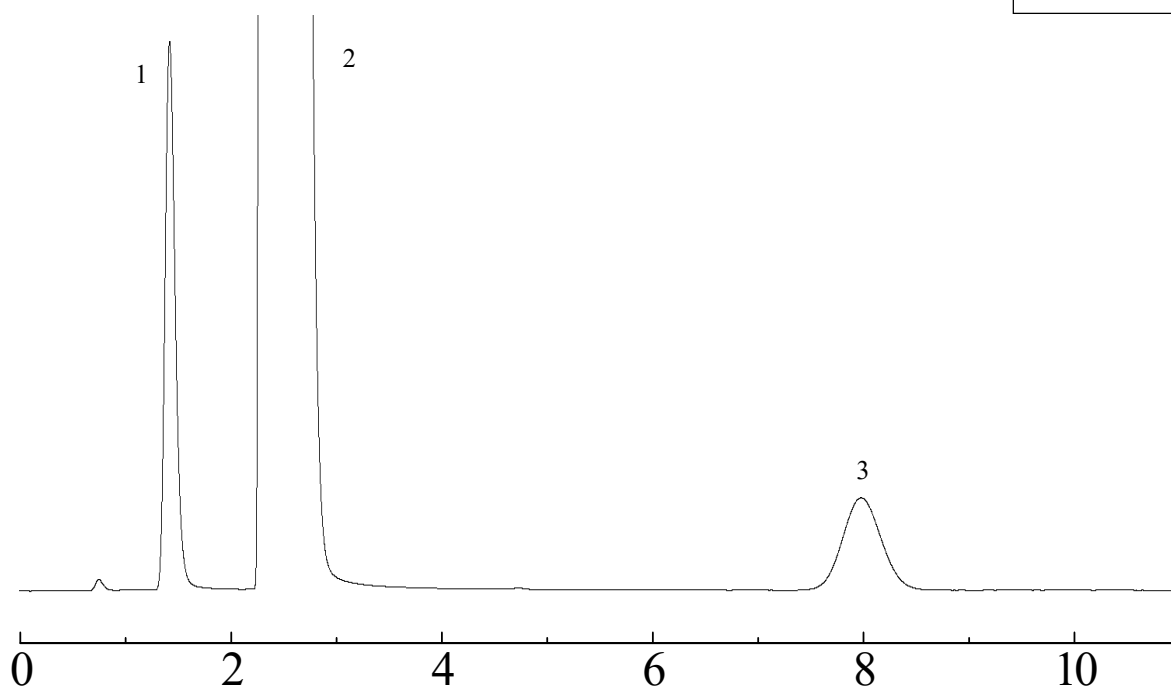
## Analysis of panipenem using Sunpak-A

~Water~

Panipenem is used as an antimicrobial drug. Shown below is an analysis of panipenem performed using a column packed with a Sunpak-A packing material and in accordance with the Japanese Pharmacopoeia.

### Sunpak-A 80/100

- 1. Water
- 2. Methanol
- 3. Acetonitrile



#### System suitability

System performance: The resolution is 15.7

(water, methanol and acetonitrile are eluted in this order with the resolution between the peaks of water and acetonitrile being not less than 10.0.)

Column: 2.1 m x 3.2 mm I.D. Glass

Injection port temp.: 200°C

Sample: water, acetonitrile in methanol

Carrier gas: 29 mL/min He (Adjust so that the retention time of acetonitrile is about 8 minutes.)

Column temp.: 125°C

Detector: 200°C (FID)

Sample volume: 1.0 µL

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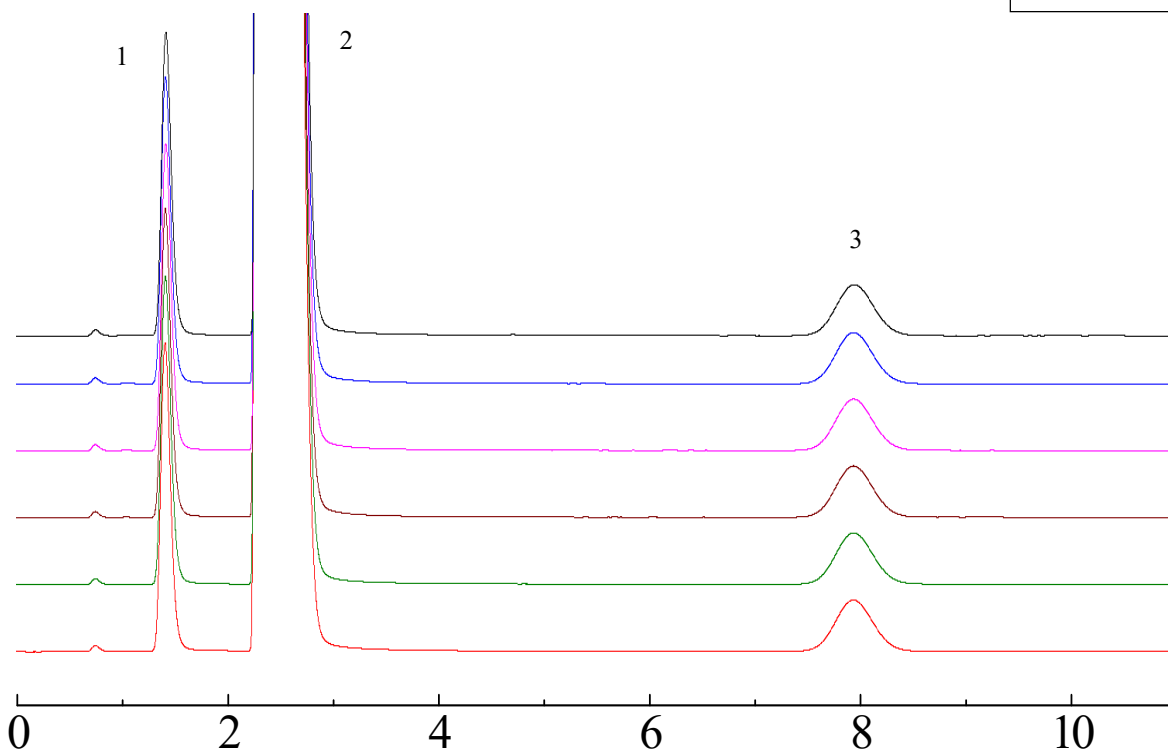
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## Sunpak-A 80/100

- 1. Water
- 2. Methanol
- 3. Acetonitrile



System repeatability: The relative standard deviation is 0.26%  
(When the test is repeated 6 times, the relative standard deviation of the ratios of the peak area of water to that of acetonitrile is not more than 5.0%)

Column:	2.1 m x 3.2 mm I.D. Glass	Column temp.:	125°C
Injection port temp.:	200°C	Detector:	200°C (FID)
Sample:	water, acetonitrile in methanol	Sample volume:	1.0 µL
Carrier gas:	29 mL/min He (Adjust so that the retention time of acetonitrile is about 8 minutes.)		

### ■ Packed column specifications and price ■

Product name	Column material	Dimensions	Price
Sunpak-A 80/100	Glass (For GC-2014 systems)	2.1 m x 3.2 mm I.D.	74,100 JPY

Prices for glass columns for Shimadzu systems other than the GC-2014, and systems manufactured by other manufacturers will differ from that shown above. The prices shown above are applicable as of August 24<sup>th</sup>, 2018. 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.