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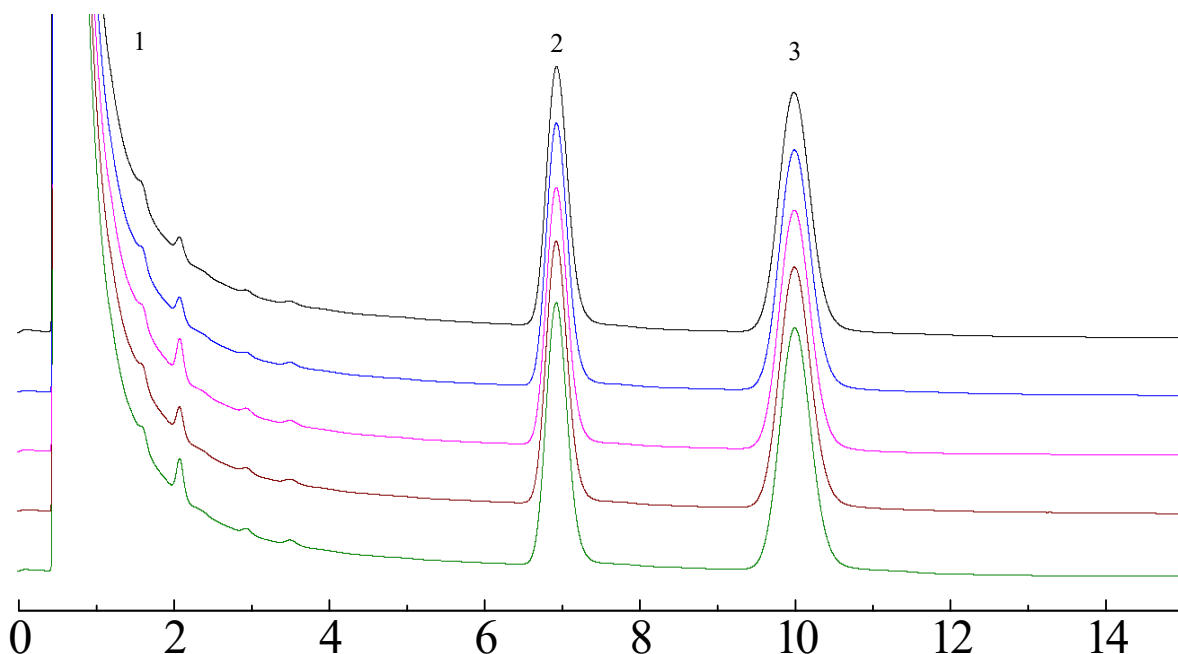
Analysis of primidone using Shinwasorb

~Purity test (3) 2-ethyl-2-phenylmalonediamide~

Primidone suppresses cranial nerve excitation and is used as an antiepileptic drug. Shown below is an analysis of primidone performed using a column packed with a Shinwasorb packing material and in accordance with the Japanese Pharmacopoeia.

Silicone OV-17 1.5% Shinwasorb-S 100/120

1. Pyridine
2. 2-ethyl-2-phenylmalonediamide
3. Stearylalcohol

**System suitability**

System performance: The resolution is 4.72

(2-ethyl-2-phenylmalonediamide and stearylalcohol are eluted in this order with the resolution between these peaks being not less than 3.0.)

System repeatability: The relative standard deviation is 0.72%

(When the test is repeated 5 times, the relative standard deviation of the ratios of the peak area of 2-ethyl-2-phenylmalonediamide to that of stearylalcohol is not more than 1.5%)

Column: 1.6 m x 3.2 mm I.D. Glass
Sample: 2-ethyl-2-phenylmalonediamide, stearylalcohol in pyridine
Column temp.: 195°C
Injection port temp.: 250°C
Carrier gas: 31 mL/min N₂ (Adjust so that the retention time of stearylalcohol is about 10 minutes.)

Sample volume: 2.0 µL
Detector: FID 250°C

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■ Packing material specifications and price ■

Product name	Weight	Price
Silicone OV-17 1.5% Shinwasorb-S 100/120	25 g	26,400 JPY

■ Packed column specifications and price ■

Product name	Column material	Dimensions	Price
Silicone OV-17 1.5% Shinwasorb-S 100/120	Glass (For GC-2014 systems)	1.6 m x 3.2 mm I.D.	65,900 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 April 23rd, 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.