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Analysis of deet (Pesticide guidelines)

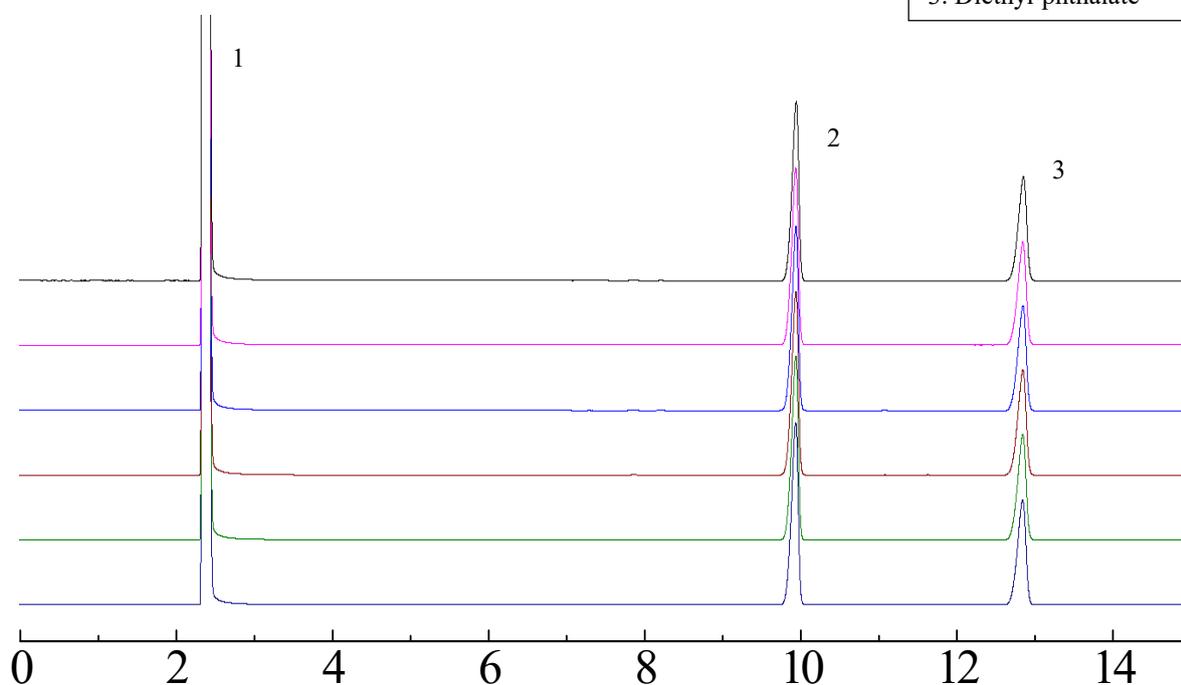
~Purity test (4) Related substances~

Deet is used as bug repellent. Shown below is an analysis of deet performed using ULBON HR-20M capillary column in accordance with the Pesticide guidelines.

ULBON HR-20M

0.2 mm I.D. x 25 m df = 0.1 μ m

1. Ethanol
2. Deet
3. Diethyl phthalate



System suitability

Column performance: The resolution is 16.0

(Deet and diethyl phthalate are eluted in this order with the resolution between these peaks being not less than 3.0.)

Column repeatability: The relative standard deviation is 0.13%.

(When the test is repeated 6 times, the relative standard deviation of the ratios of the peak area of deet to that of diethyl phthalate is not more than 1.0%)

Column: ULBON HR-20M 0.2 mm I.D. x 25 m df = 0.1 μ m
 Sample: Deet, diethyl phthalate in ethanol
 Column temp.: 170°C
 Carrier gas: 21 cm/sec He (Adjust so that the retention time of deet is about 10 minutes.)
 Split rate: 1 : 70

Sample volume: 1.0 μ L
 Detector: FID 230°C
 Injection port temp.: 230°C



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■ Capillary column specifications and price ■

Product name	Price
ULBON HR-20M 0.2 mm I.D. x 25 m df = 0.1 μ m	70,000 JPY

The price shown above is applicable as of May 24th, 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.