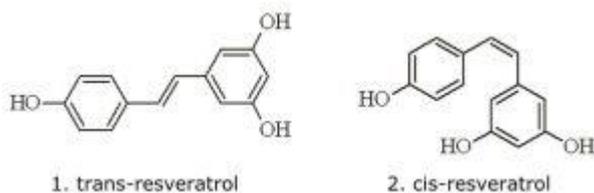
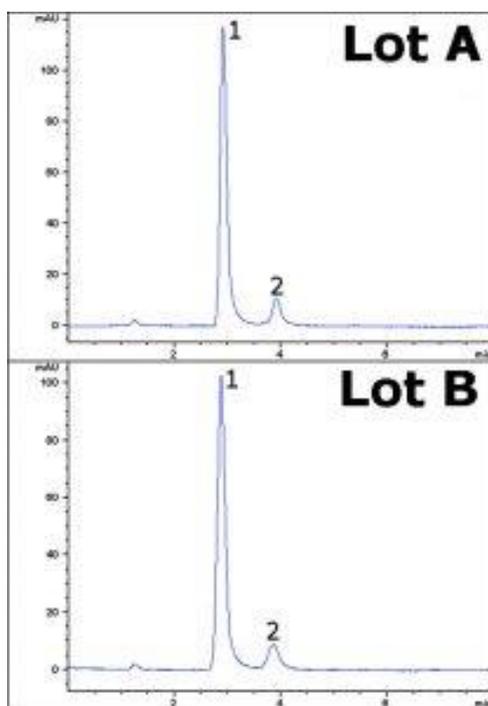


## Resveratrol Isomers - AppNote

### Isocratic Separation of Isomers

In this easy isocratic method, the cis and trans isomers of Resveratrol are separated using a near-UHPLC stationary phase. The Cogent Bidentate C18 2.0™ Column produces excellent efficiency for both analyte peaks. The sample used here is an actual capsule formulation, demonstrating the suitability of the column for real-world samples. With a more sophisticated detection methods such as LC-MS, the method could be applied to complex samples where Resveratrol may be present, such as red wine.

Below data is collected from two different stationary phase lots ( A and B ) to demonstrate reproducibility of the material.



**Peaks:** 1. trans-Resveratrol, 2. cis-Resveratrol

### Method Conditions

**Column:** Cogent Bidentate C18 2.0™, 2.2 µm, 120 Å

**Catalog No.:** [40218-05P-2](#)

**Dimensions:** 2.1 x 50 mm

**Mobile Phase:** 75% DI Water / 25% Acetonitrile / 0.1% Formic Acid

**Injection vol.:** 0.2 µL

**Flow rate:** 0.2 mL / minute

**Detection:** UV @ 308 nm

**Sample:** 100 mg strength Resveratrol capsule contents were added to a 100 mL volumetric flask containing a portion of 50/50/0.1 DI Water / Acetonitrile / Formic Acid. Solution was then sonicated for 10 minutes and diluted to mark. After mixing, a portion was filtered with a 0.45 µm Nylon Syringe Filter (MICROSOLV Tech. Corp.)

**t<sub>o</sub>:** 1.2 minutes

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**Note:** Resveratrol is a natural product found in the skin of red grapes and other sources. It has been reported to have anti-cancer, anti-aging, cardio-protective, and anti-diabetic effects.

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**Attachment No 330 Resveratrol Isomer Separation pdf** 0.4 Mb [Download File](#)

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