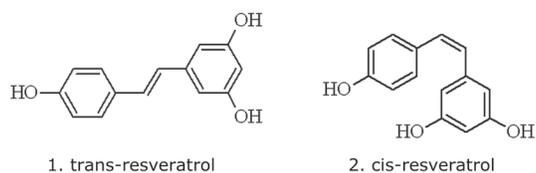
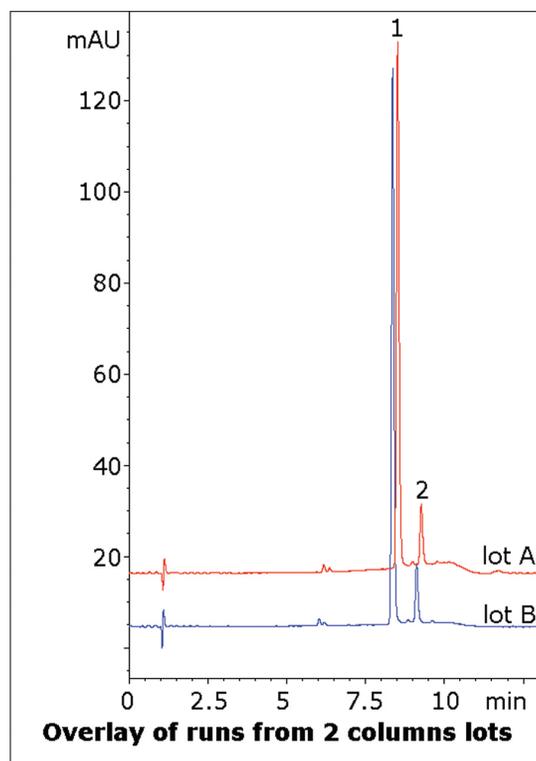


Resveratrol Capsule

Stilbenoid isomers found in red wine



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

Method Conditions

Column: Cogent Bidentate C18™, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75 mm

Mobile Phase: A: DI H₂O / 0.1% formic acid
B: Acetonitrile / 0.1% formic acid

Gradient:	time (min.)	%B
	0	10
	1	10
	9	40
	10	10

Post Time: 3 min

Injection vol.: 1µL

Flow rate: 1.0 mL/min

Detection: UV 308 nm

Sample: 100mg strength resveratrol capsule contents were added to a 100 mL volumetric flask containing a portion of 50/50 solvent A/solvent B diluent. It was then sonicated 10 min and diluted to mark. After mixing, a portion was filtered with a 0.45µm nylon syringe filter (MicroSolv Tech Corp.).

Peaks: 1. trans-resveratrol
2. cis-resveratrol

t₀: 0.9 min

Discussion

In this method, the two isomers of resveratrol were separated using a simple reversed phase gradient. Different capsules were analyzed and it was discovered that some had both isomers peaks present while the cis isomer was not detected in others (data not shown). The ability of the column to separate the two isomers is an excellent example of determining capsule-to-capsule consistency.

In the figure, data from two column lots are shown to illustrate the stationary phase production reproducibility.