## Analysis of Polyphenol in Food by HPLC

LT061 GL Sciences Inc.

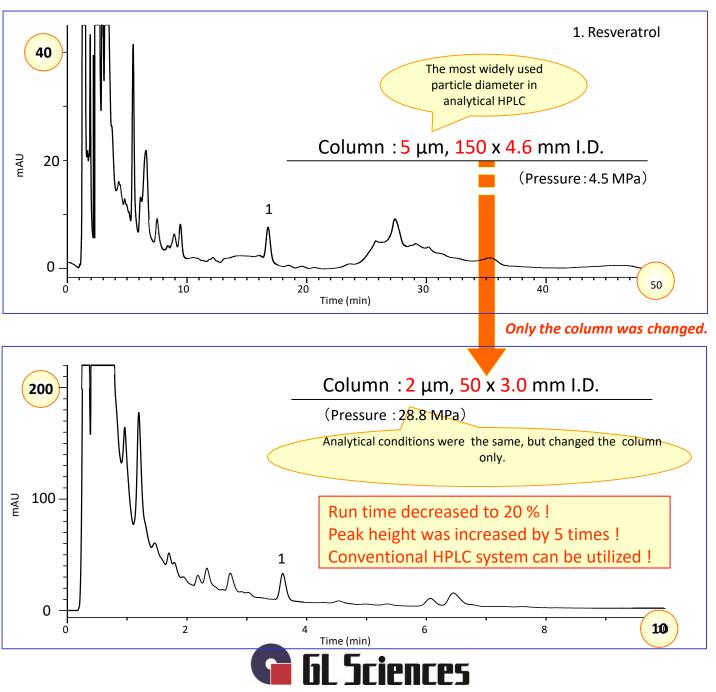
Polyphenols are found in almost all plants and are thought to reduce the risk of cancer and cardiovascular disease in recent years. Among them, resveratrol is one of the polyphenolic antioxidants found in red wine and sold as a nutritional supplement. This note describes a determination method for resveratrol in red wine.

In the analysis, a conventional HPLC system, which is usually used with 5  $\mu$ m particle columns, was utilized with a 2  $\mu$ m particle column. Only to switch the particle size from 5  $\mu$ m to 2  $\mu$ m improved the sensitivity and reduced the run time significantly. (K.Suzuki)

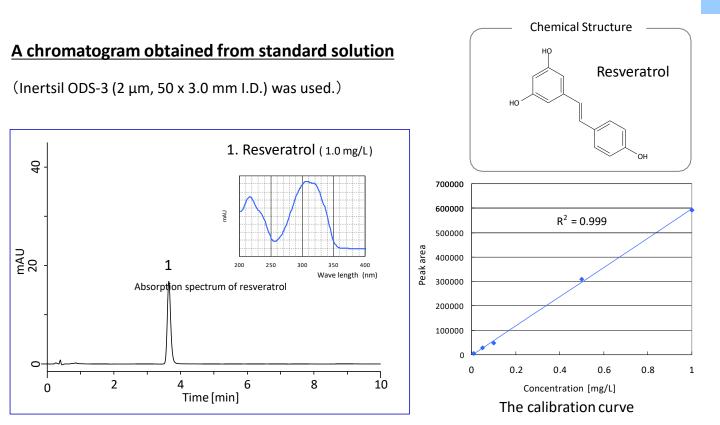
# An analysis of resveratrol in red wine

Filtrate of red wine was injected into the HPLC system.

: Inertsil ODS-3 : A) CH <sub>3</sub> CN B) H <sub>2</sub> O A/B = 20/80, v/v
A) CH <sub>3</sub> CN B) H <sub>2</sub> O
B) H <sub>2</sub> O
· 2
A/B = 20/80, v/v
(Mixed by a gradient mixer )
<b>:</b> 1.0 mL/min
40 °C
UV 310 nm
20 µL







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