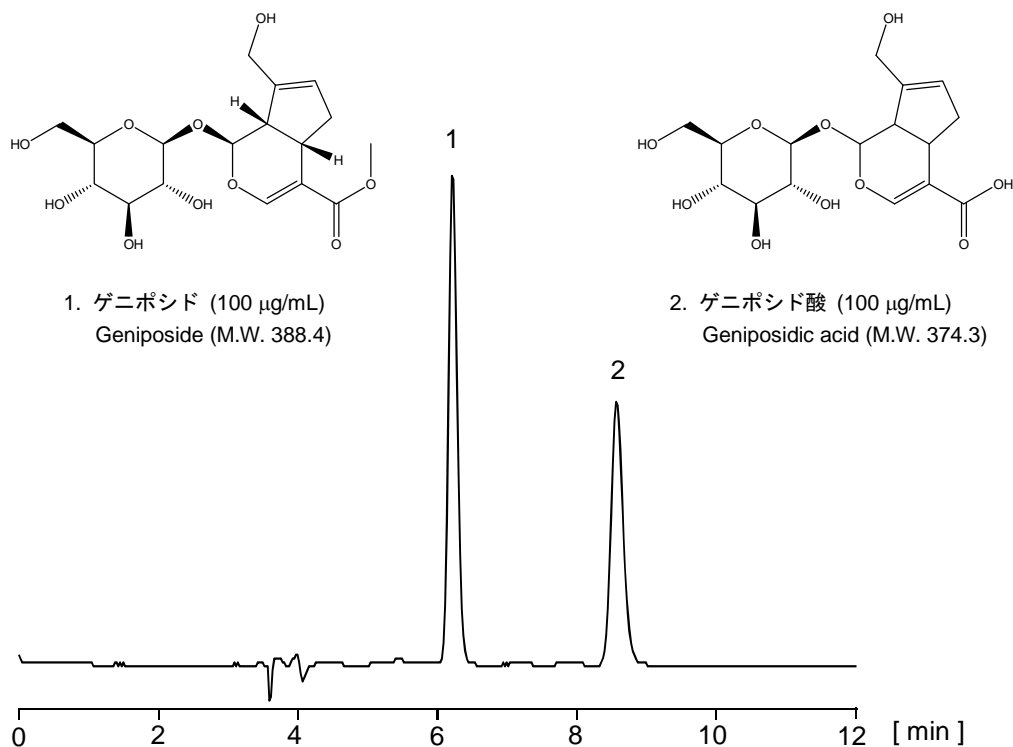


ゲニポシド酸

Geniposidic acid

杜仲茶に含まれるゲニポシド酸は抗酸化力があり、生活習慣病の予防に効果が期待されています。これらの化合物は極性が高いため、一般的な C₁₈ カラムでは保持が困難です。そこで、分離モードを逆相から HILIC モードに変更し、PC HILIC S5 (2.0 mm i.d. x 250 mm) を用い、ゲニポシドと同時に分析した例を示します。

Geniposidic acid included in the Duzhong tea has anti-oxidizing effect which has been expected in the prevention of lifestyle-related diseases. This kind of compound is hydrophilic and difficult to be retained by the conventional C₁₈ columns. By changing the separation mode from reverse phase to HILIC mode, Geniposide and geniposidic acid could be adequately separated with PC HILIC S5 (2.0 mm i.d. x 250 mm).



【HPLC Conditions】

Column	: PC HILIC S5 ; 2.0 mm i.d. x 250 mm
Mobile phase	: 0.1 vol% CH ₃ COOH, H ₂ O / CH ₃ CN = 10 / 90
Flow rate	: 200 μL/min
Temperature	: 40 °C
Detection	: UV 254 nm
Inj. vol.	: 2 μL
Sample dissolved in	: 90 vol% CH ₃ CN
	※ 1 μg/mL = 1 ppm