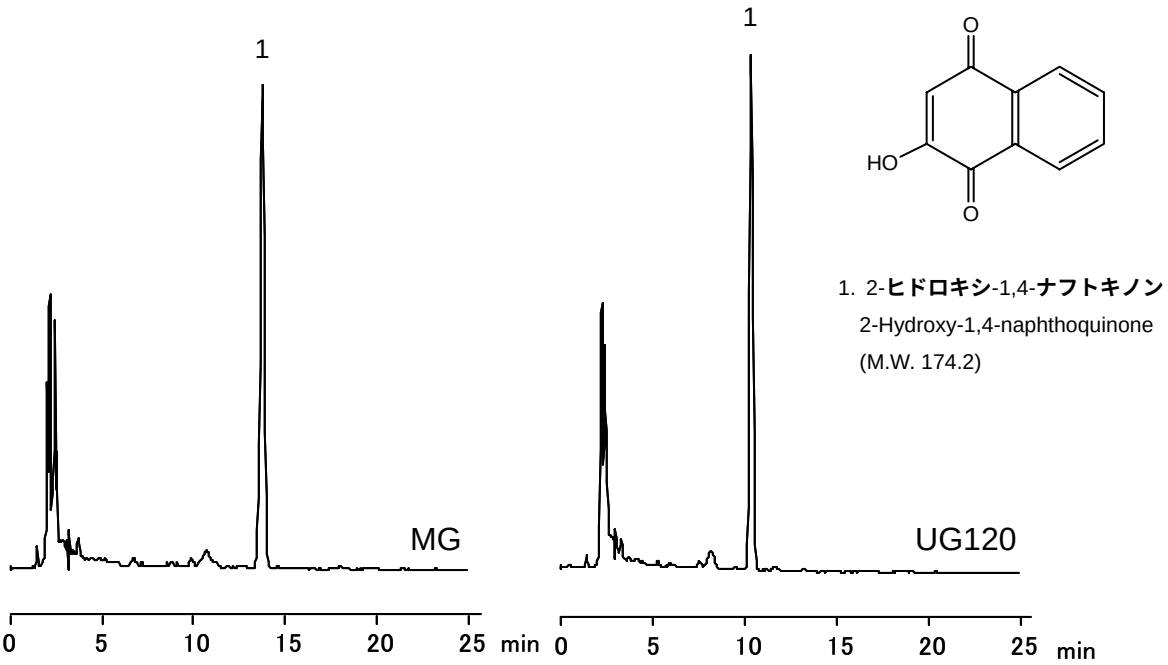
2-**ヒドロキシ**-1,4-**ナフトキノン**　2-Hydroxy-1,4-naphthoquinone

白髪染めとして用いられているヘナ中に含まれる色素成分，2-**ヒドロキシ**-1,4-**ナフトキノン**(**別名**:**ローソン**) **の分析例です．今回は，**CAPCELL PAK C_{18} MG **及び** UG120 **による分析例を示します．**

Also known as “lawson”, the pigment is contained in henna, a substance used as dye for white hair. Chromatograms were obtained with both CAPCELL PAK C_{18} MG and UG120 columns.



1. 2-**ヒドロキシ**-1,4-**ナフトキノン**
2-Hydroxy-1,4-naphthoquinone
(M.W. 174.2)

【HPLC Conditions】

Column	:	CAPCELL PAK C_{18} MG S5 ; 4.6 mm i.d. x 250 mm CAPCELL PAK C_{18} UG120 S5 ; 4.6 mm i.d. x 250 mm
Mobile phase	:	10 mmol/L KH_2PO_4 (adjusted at pH 7.5 with 3 mol/L KOH) / CH_3OH = 4 / 1
Flow rate	:	1 mL/min
Temperature	:	40 ˚C
Detection	:	UV 275 nm
Inj. vol.	:	10 μL
Pretreatment	:	10mL of extracting buffer *1 was added to 0.05 g of henna powder. After 15 min, the mixture was sonicated (60˚C, 15 min), and centrifuged (3000 rpm, 5 min). 2 mL of the supernatant was collected and mixed with 1.34 mL of methanol. The mixed liquid was diluted to 10 mL with another mixed liquid (the extracting buffer / methanol = 6 / 4).

*1 Extracting buffer : A buffer solution (10 mmol/L KH_2PO_4 / 10 mmol/L Na_2HPO_4 = 1 / 1) was adjusted at pH 8 with 3 mol/L KOH.

※ 1 μg/mL = 1 ppm