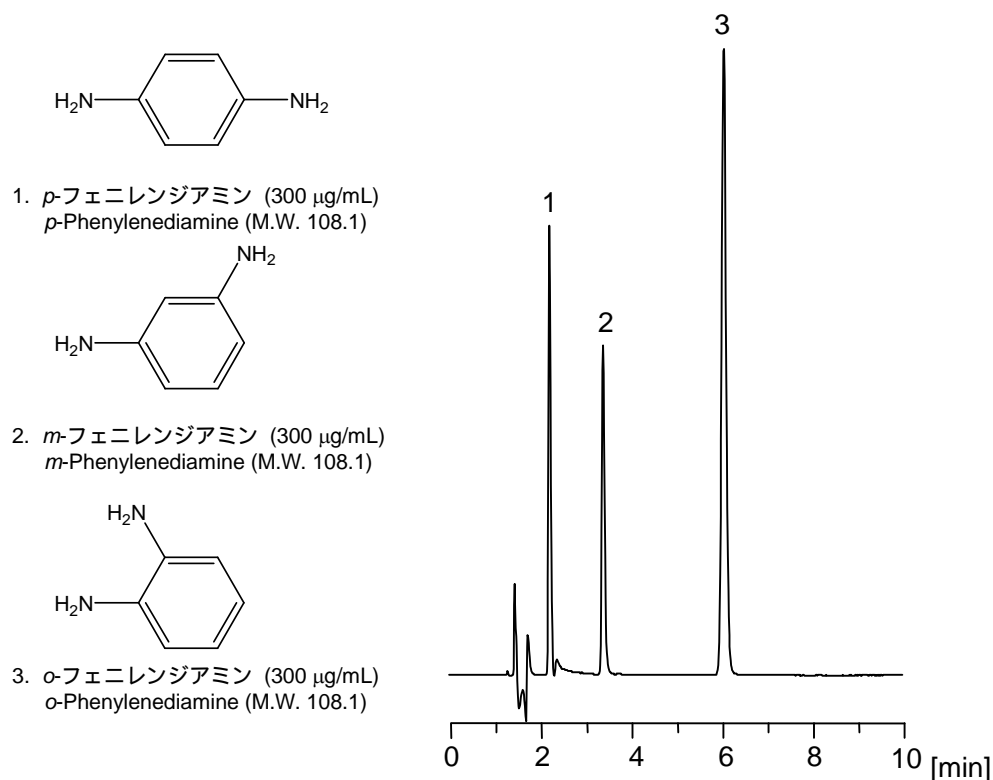


## フェニレンジアミン

## Phenylenediamine

酸化染毛料に使用される *p*-パラフェニレンジアミンとその不純物, *o*-, *m*-異性体を中国国家標準の条件を参考に分析しました。カラムには表面多孔性の CAPCELL CORE C<sub>18</sub> S2.7 (4.6 mm i.d. x 150 mm) を用いたところ, 三種のフェニレンジアミン異性体の分離が迅速かつ高分離度にて行えました。

*p*-Phenylenediamine, a compound used for hair dye, and its two impurities, *m*-, and *o*-isomers, were separated with a method modified from the one in the Chinese National Standards. Using CAPCELL CORE C<sub>18</sub> S2.7 (4.6 mm i.d. x 150 mm), or a superficially porous type, the three phenylenediamine isomers were separated rapidly and efficiently.



### 【HPLC Conditions】

Column	: CAPCELL CORE C <sub>18</sub> S2.7 ; 4.6 mm i.d. x 150 mm
Mobile phase	: 1 vol% Triethanolamine (adjusted at pH 7.7 with H <sub>3</sub> PO <sub>4</sub> ) / CH <sub>3</sub> CN = 97 / 3
Flow rate	: 1 mL/min
Temperature	: 30 °C
Detection	: UV 280 nm
Inj. vol.	: 1 µL
Sample dissolved in	: CH <sub>3</sub> OH 1 µg/mL = 1 ppm