



Nitro-1,2-phenylenediamine Analysis in Raw Materials for Hair Dyes

1. Analytical Condition

YL9100 HPLC

Sample : Nitro-1,2-phenylenediamine
Mobile Phase : Gradient program
(A: 20mM Na₂HPO₄+10mM CH₃COONH₄, B: ACN)
Flow rate : 1.2 mL/min
Column : Capcellpak MG C18 (4.6 * 250 mm, 5 μm)
Detector : UV/Vis, 254 nm
Column Temp. : 35 °C
Injection volumn: 10 μL

<Gradient Program>

Time(min)	A(%)	B(%)
Initial	100	0
5	100	0
20	0	100
35	0	100
35.1	100	0
45	100	0

2. Chromatogram

