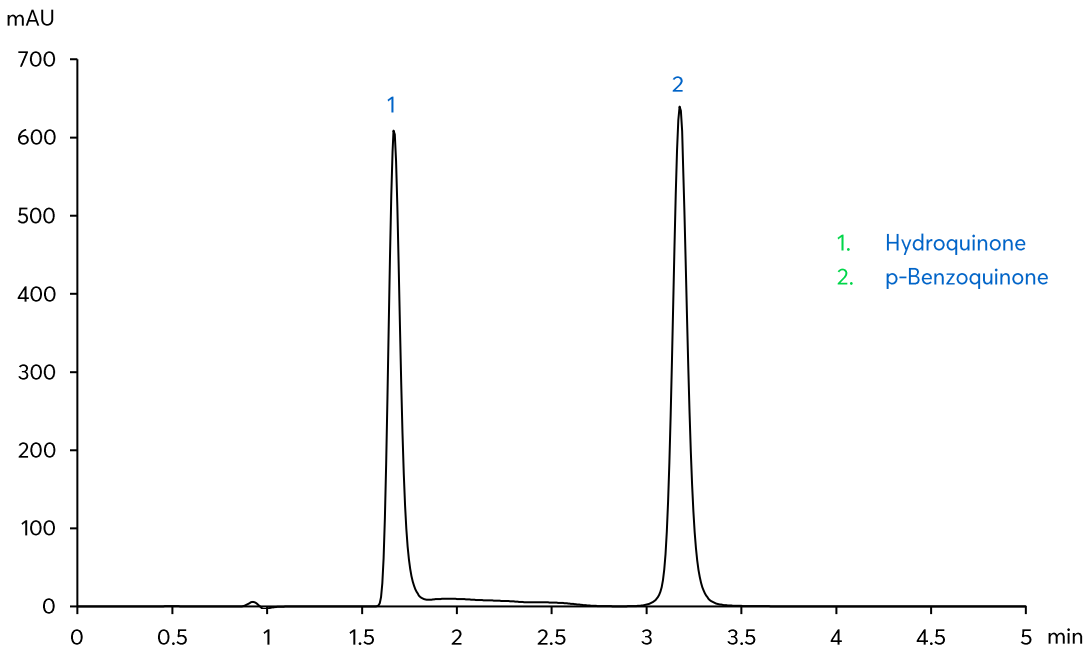
Chromatography Solutions

Application note #7770

HPLC Separation of Hydroquinone and its Oxidation Product p-Benzoquinone (p-Quinone)



Avantor® ACE®

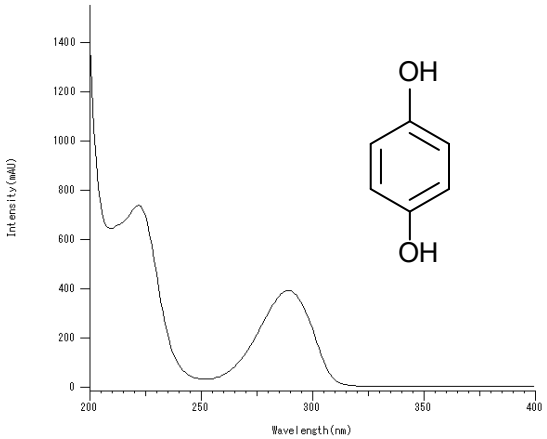
Method Details

CONDITIONS

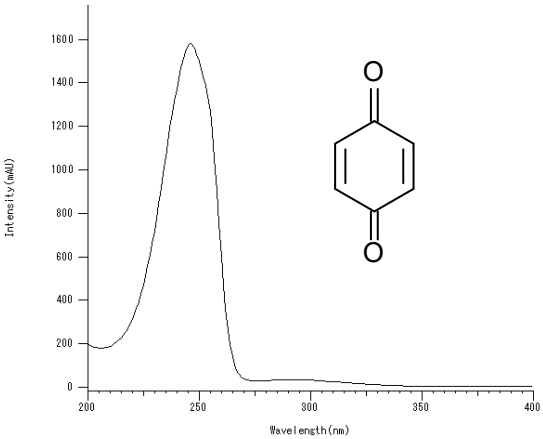
Column:	Avantor® ACE® Excel® 3 C18
Particle Size:	3 µm
Dimensions:	100 x 3.0 mm
Instrument:	VWR Hitachi Chromaster HPLC system with DAD
Mobile Phase:	H_2O/MeCN (95:5 v/v)
Flow Rate:	0.7 mL/min
Injection:	10 µL
Temperature:	40 °C
Wavelength:	228 nm
Standard:	Hydroquinone + p-Benzoquinone (0.1 µg/L each) in water

UV SPECTRA

Hydroquinone



p-Benzoquinone



ORDERING TABLE

Product	Details	Size	Part Number
Avantor® ACE® Excel® 3 C18	HPLC Column	100 x 3.0 mm	EXL-111-1003U
Avantor® ACE® C18 UHPLC Guard Cartridges	For 2.1 - 3.0 mm i.d. C18 columns	3 pk	ACE-1P1-GD2U
Avantor® ACE® UHPLC Guard Holder	Required for use of UHPLC guard cartridges	1	H0011
Acetonitrile	VWR HiPerSolv CHROMANORM® for LC-MS	2.5 L	83640.320
Water	VWR CHROMANORM® super gradient grade	2.5 L	83650.320
VWR Hitachi Chromaster HPLC	600 bar HPLC system. Includes 5430 DAD		903-0355
VWR Hitachi ChromAssist Data Station	HPLC Software		906-0123