

HPLC Application

ID No.: 23042

Carcinogenic amines on Kinetex 2.6 µm EVO C18

Column: Kinetex[®] 2.6µm EVO C18 100 Å, LC Column 150 x 2.1 mm, Ea

Dimensions: 150 x 2.1 mm ID

Order No: 00F-4725-AN

Elution Type: Gradient

Eluent A: 10 mM ammonium acetate/ ACN (95:5)

Eluent B: Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	95	5
	2	10	5	95

Flow Rate: 0.4 mL/min

Col. Temp.: 50 °C

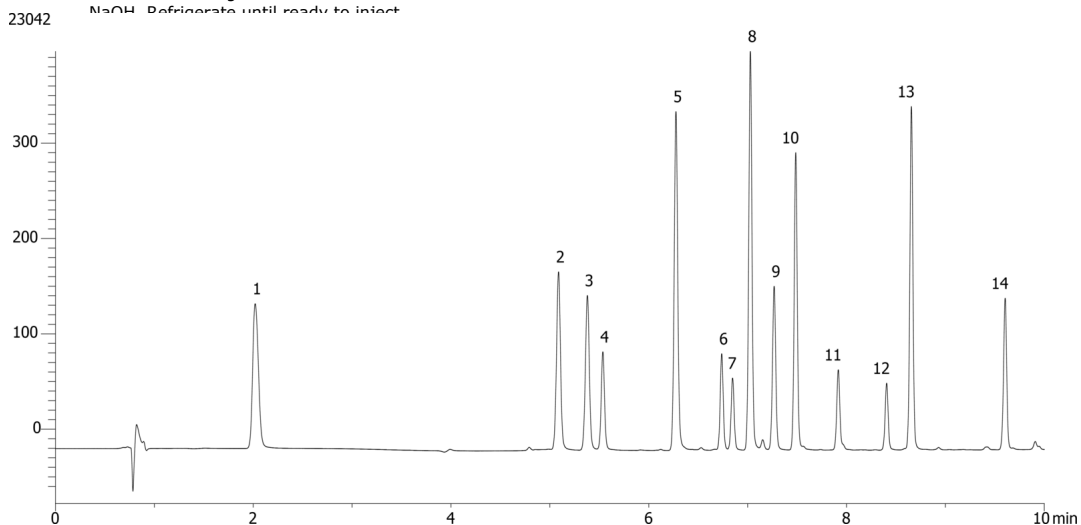
Detection: UV-Vis Abs.-Variable Wave.(UV) @ 240 nm (ambient)

Analyst Note: Forced degradation protocol:

Reconstitute 1 mg of cefaclor neat standard with 1.0 mL of 1 M HCl. Heat the solution at 60 °C for 6 hours then neutralize with 1.0 mL of 1 M NaOH. Refrigerate until ready to inject.



Products used in this application:



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ANALYTES:

- 1** 4-Methyl-m-phenylenediamine
- 2** o-Anisidine
- 3** o-Toluidine
- 4** Benzidine
- 5** 4-Chloroaniline
- 6** 3,3'-Dimethoxybenzidine
- 7** 3,3'-Dimethylbenzidine
- 8** 2-Naphthylamine
- 9** 2,4,5-Trimethylaniline
- 10** 4,4'-methylenedio-toluidine
- 11** 4-Aminobiphenyl
- 12** 3,3'-Dichlorobenzidine
- 13** 2,2'-Dichloro-4,4'-methylenedianiline
- 14** o-Aminoazotoluene

