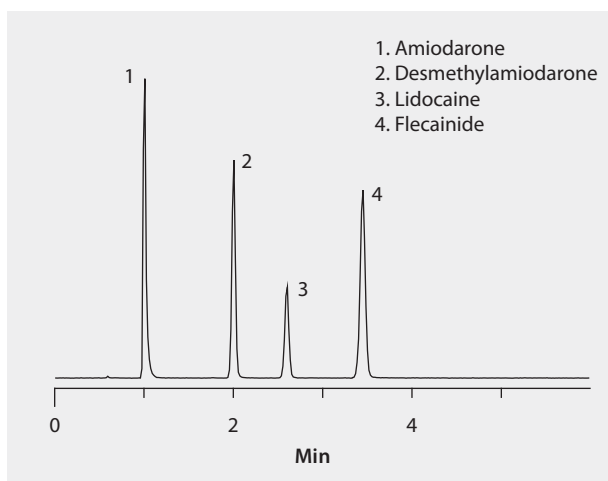


## LC/MS (TOF) Analysis of Antiarrhythmic Drugs and Metabolites on Ascentis® Express 2.7 µm HILIC

The basic nature of these compounds makes them targets for HILIC chromatographic separation. HILIC mobile phases consist of a high composition of acetonitrile, which facilitates the direct analysis of precipitated plasma samples without the need for additional sample solvent exchange. In most cases, the high organic mobile phase also facilitates increased analyte response with ESI(+) MS detection. Separation was performed on an Ascentis Express HILIC Fused-Core HPLC column. Fluka CHROMASOLV solvents provided clean, robust operation. Cerilliant CRMs provided reliable quantification.

market focus	Clinical
column	Ascentis Express HILIC, 10 cm x 2.1 mm I.D., 2.7 µm particles (53939-U)
mobile phase	[A] 5 mM ammonium formate; [B] 5 mM ammonium formate in acetonitrile; (5:95, A:B, pH 7.0 with formic acid)
flow rate	0.4 mL/min
column temp.	35 °C
detector	ESI(+), full scan, m/z 200-800
injection	0.5 µL
sample	each compound, 300 ng/mL in 1% formic acid acetonitrile:water, 75:25
Application No.	G005817



### Related Products

#### analytical column

Ascentis® Express HILIC, 2.7 Micron HPLC Column ([Supelco 53939-U](#))

#### mobile phase component

Acetonitrile ([Fluka 14261](#))

Ammonium formate ([Fluka 14266](#))

Formic acid ([Fluka 14265](#))

Water ([Fluka 14263](#))

#### standard

N-Desethylamiodarone hydrochloride solution ([Cerilliant D-055](#))

(±)-Flecainide solution ([Cerilliant F-017](#))

Lidocaine solution ([Cerilliant L-018](#))