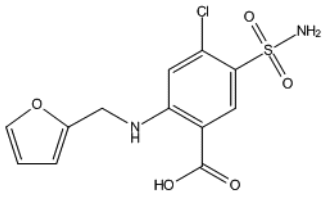
APPLICATION NOTES

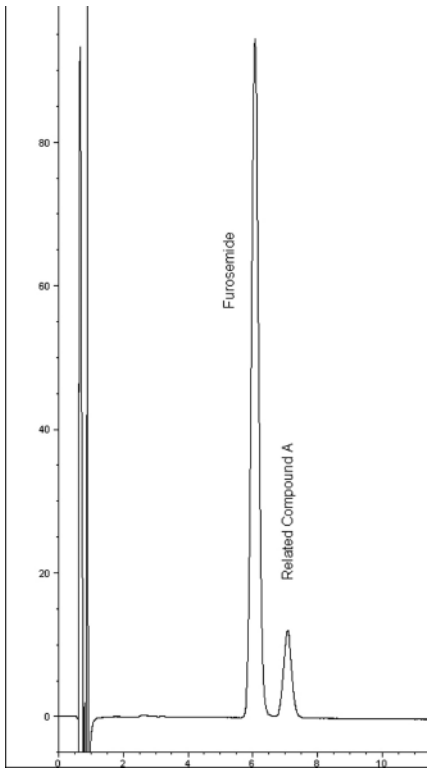
Cogent™ Bidentate C18
with TYPE-C Silica™

HPLC
RP-*C18*

Furosemide USP & Related Compound

Diuretic Drug: Furosemide Tablet Formulation





Method Conditions

Column:	Cogent Bidentate C18™, 4µm, 100Å
Catalog No.:	40018-75P
Dimensions:	4.6 x 75 mm
Mobile phase:	70% Water, 30% THF 1% Acetic Acid
Flow rate:	1.0 mL/minute
Peaks:	1. Furosemide 2. Related compound
Injection Volume:	20 µL
Detection:	UV 254 nm
Temperature:	25°C

Discussion

This active pharmaceutical ingredient, Furosemide USP and its related compound can be a difficult molecule to chromatograph with conventional L1 (C18) columns due to silanol activity.

Note the excellent peak shape of Furosemide and its related compound A when used with this method; baseline resolution is achieved between this specified impurity and Furosemide. The active is easily separated from excipients in this tablet formulation.

MW of the Furosemide is 330.75.

For more information visit www.MTC-USA.com

Note: Furosemide or frusemide is a loop diuretic used in the treatment of congestive heart failure and edema. It is most commonly marketed by Sanofi-Aventis under the brand name Lasix. It has also been used to prevent thoroughbred and standard bred race horses from bleeding through the nose during races. Along with some other diuretics, Furosemide is also included on the World Anti-Doping Agency's banned drug list due to its alleged use as a masking agent for other drugs.

Cat. No.	Description
40018-75P	Cogent Bidentate C18™ HPLC Column, 4µm, 100A, 4.6mm x 75mm

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