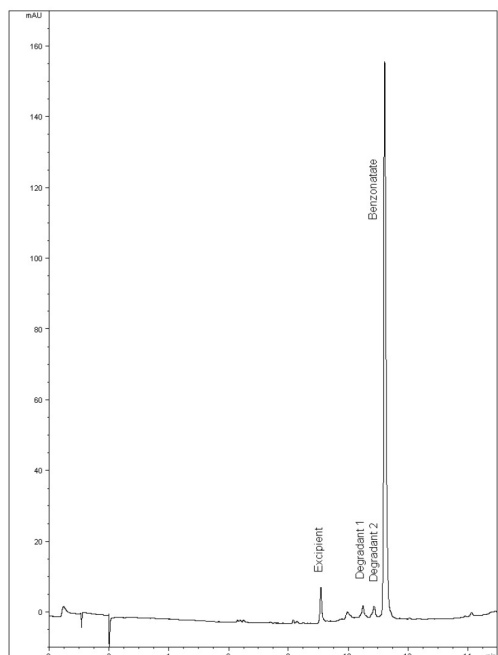
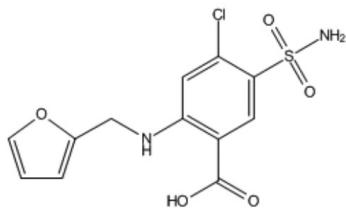


Furosemide USP & Related Compound

Diuretic Drug: Furosemide Tablet Formulation



Notes: 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.

Method Conditions

Column: Cogent Bidentate C18™, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75 mm

Mobile Phase: 70% DI H₂O/ 30% THF/ 1% acetic acid

Flow rate: 1 mL/min

Temperature: 25°C

Injection vol.: 20µL

Detection: UV 254 nm

Peaks: 1. Furosemide
2. Related compound

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.