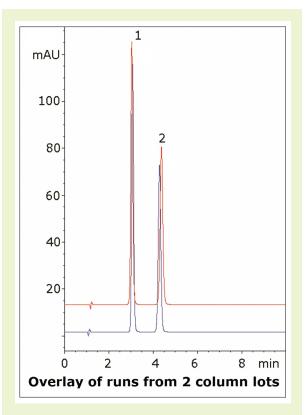
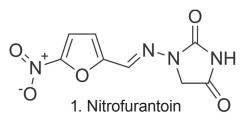


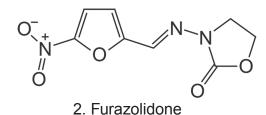


Furazolidone

Improved specificity compared to USP assay method







Note: Furazolidone is an antibacterial nitrofuran. It is used in both human and veterinary medicine. It is available under the trade name Furoxone[®].

Method Conditions

Column: Cogent Bidentate C8™, 4µm, 100Å

Catalog No.: 40008-75P

Dimensions: 4.6 x 75 mm

Mobile Phase: 80% DI H_2O / 20% acetonitrile / 0.1% formic acid (v/v)

Injection vol.: 1µL

Flow rate: 1.0 mL/min

Detection: UV 367 nm

Sample: 1mg furazolidone and 1mg nitrofurantoin USP reference standards were dissolved in 1 mL of the mobile phase. The solution was then diluted 1:10 with the same diluent. Peak identities were confirmed with individual standards.

Peaks: 1. Nitrofurantoin (Internal Standard) 2. Furazolidone

to: 0.9 min

Discussion

The USP assay method for furazolidone is performed by UV spectrophotometry. This method by HPLC provides better robustness and specificity for the analysis. Separation of furazolidone from the structurally similar compound nitrofurantoin is shown in the figure.

This compound can be used as an internal standard, leading to more robust quantitation.

Furthermore, the ability of this method to distinguish amongst similar compounds demonstrates how it is less prone to interference from impurities or degradants.

MANUFACTURED BY:



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