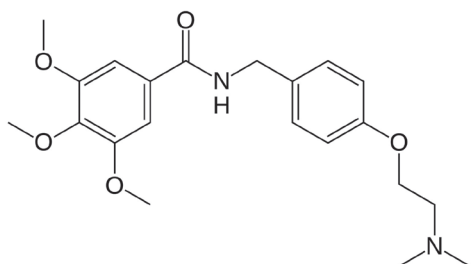
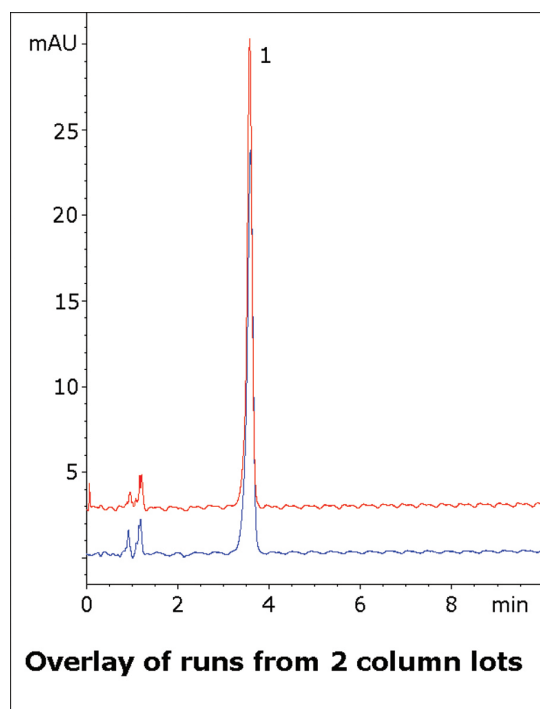


Trimethobenzamide

Excellent peak shape with an organic amine



Trimethobenzamide

Note: Trimethobenzamide is an antiemetic used to treat nausea and vomiting that may occur after surgery or from gastroenteritis. It is sold under the trade names Tebamide® and Tigan®.

Method Conditions

Column: Cogent Diamond Hydride™, 4µm, 100Å

Catalog No.: 70000-7.5P

Dimensions: 4.6 x 75 mm

Mobile Phase: 5% DI H₂O / 95% acetonitrile / 0.1% (v/v) trifluoroacetic acid (TFA)

Injection vol.: 1µL

Flow rate: 1.0 mL/min

Detection: UV 215 nm

Sample: 1mg trimethobenzamide USP reference standard was dissolved in 1mL of 50/50/0.1 (v/v) DI H₂O / acetonitrile / trifluoroacetic acid. This stock solution was diluted 1:10 for HPLC injections using the same diluent.

Peak: 1. Trimethobenzamide

t₀: 0.9 min

Discussion

The USP Assay of trimethobenzamide is performed by titration. This alternative HPLC approach is fast, easy, and reliable. It has many advantages over the titration method, including ease of automation and less operator-dependent results.

This simple isocratic method provides sufficient retention of the API to allow for separation from other matrix components yet still is fast enough for high throughput of samples. Injections from two Cogent Diamond Hydride lots are shown in the figure to illustrate stationary phase reproducibility.