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# Trimethobenzamide Analyzed by HPLC – AppNote

## Separation of Trimethobenzamide with a Simple Isocratic Method

The USP Assay Method 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. Data from two Column lots shown in the figure illustrates the reproducibility of the Method and it robustness.

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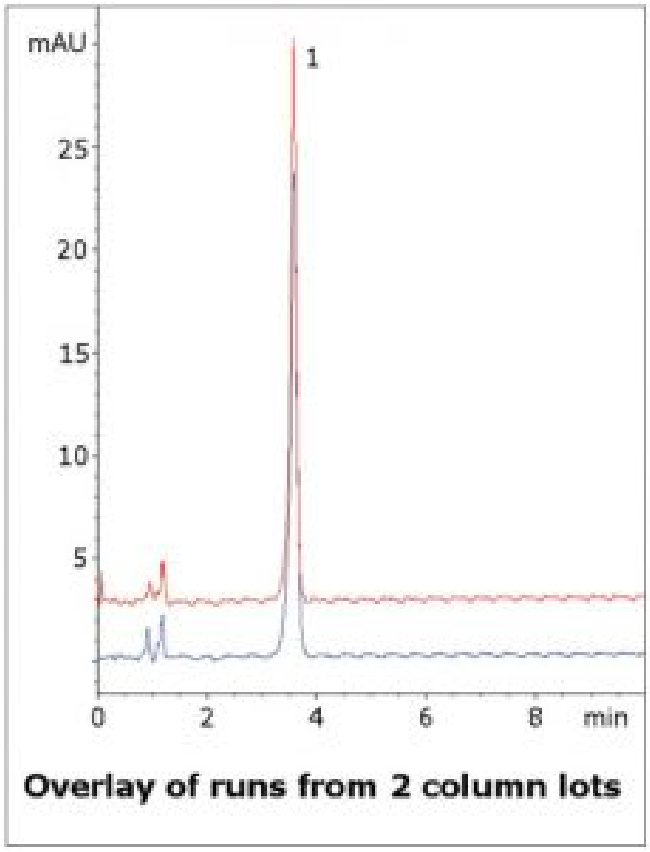


**Overlay of runs from 2 column lots**

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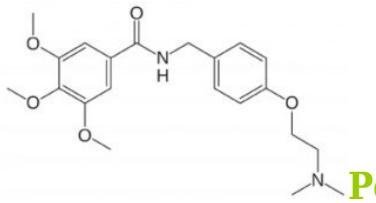

**Peak:**

Trimethobenzamide

## Method Conditions

**Column:** Cogent Diamond Hydride™, 4µm, 100Å
**Catalog No.:** 70000-7.5P
**Dimensions:** 4.6 x 75mm
**Mobile Phase:** 5% DI Water / 95% Acetonitrile / 0.1% (v/v) Trifluoroacetic Acid (TFA)
**Injection vol.:** 1µL
**Flow rate:** 1.0mL / minute
**Detection:** UV @ 215nm
**Sample Preparation:** 1mg Trimethobenzamide USP reference standard was dissolved in 1mL of 50:50:0.1 (v/v) DI Water / Acetonitrile / Trifluoroacetic Acid. This stock solution was diluted 1:10 for HPLC injections using the same diluent.
**$t_0$:** 0.9 minutes

***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®.*



**Attachment**

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