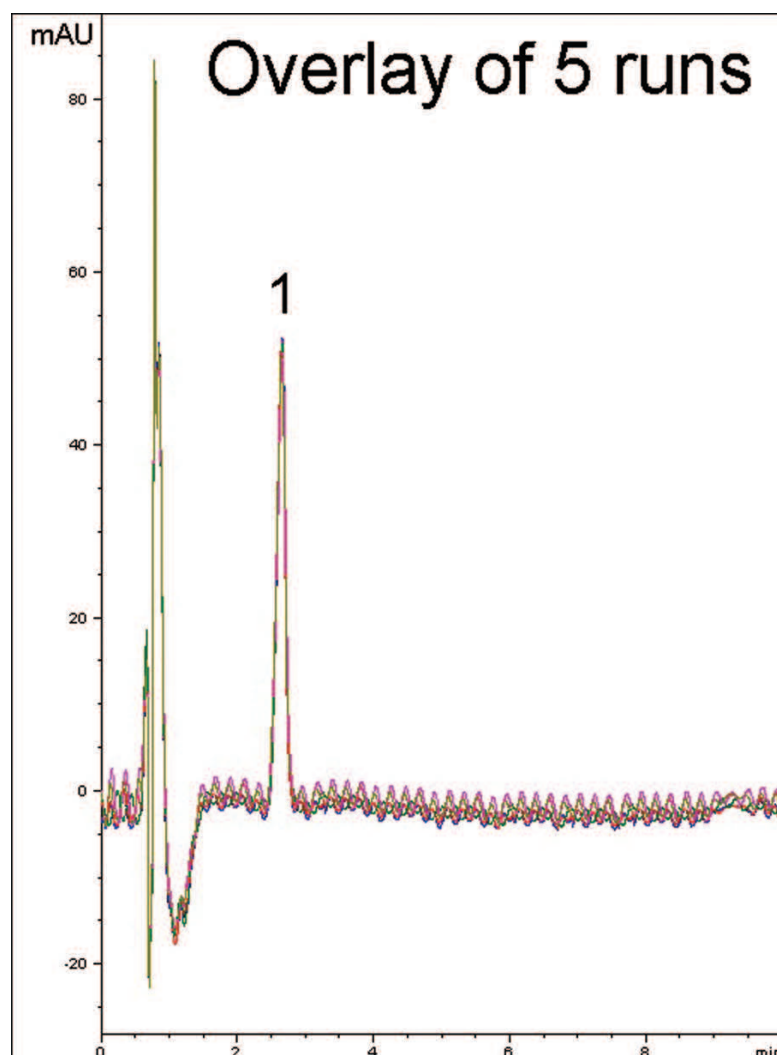


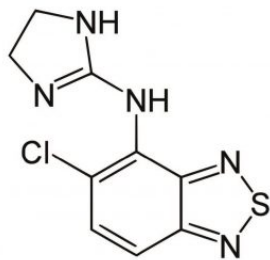
Tizanidine HCl Tablet with Precision – AppNote

Excellent Run to Run Precision

Tizanidine has several amine groups which can present problems to chromatographers. Residual silanols on the surface of ordinary Silica-based Columns can electrostatically interact with these groups, causing peak tailing.

The Cogent Amide Column, used in the Application Note is virtually free of residual silanols and therefore a symmetrical peak shape can be obtained. An overlay of five consecutive runs demonstrates the run- to-run precision when using these columns.





Tizanidine

Peak:

Tizanidine

Method Conditions

Column: Cogent Amide™, 4µm, 100Å

Catalog No.: 40036-05P

Dimensions: 4.6 x 50mm

Mobile Phase:

A: 90% DI Water / 10% Acetonitrile / 0.1% Formic Acid (v/v)

B: Acetonitrile / 0.1% Formic Acid (v/v)

Gradient:

| Time (Minutes) | %B |
|----------------|----|
| 0 | 90 |
| 2 | 90 |
| 6 | 40 |
| 7 | 90 |

Flow rate: 1.0 mL/minute

Detection: UV @ 230nm

Injection vol.: 3µL

Sample Preparation:

4 mg strength Tizanidine HCl tablet was ground and weighed in a 10 mL volumetric flask. A portion of 50/50 solvent A/ solvent B diluent was added and the flask was sonicated 10 minutes. It was then diluted to mark and filtered with a 0.45µm Nylon syringe filter (MicroSolv Tech Corp). An aliquot was then diluted 1:10 with a diluent of 10% solvent A / 90%.

Note: Tizanidine is a centrally acting α_2 -adrenergic agonist used to treat spasms, cramping, tightness of muscles, and related conditions. It is available under the trade name Zanaflex® as well as generic versions.



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Date: 09-26-2024