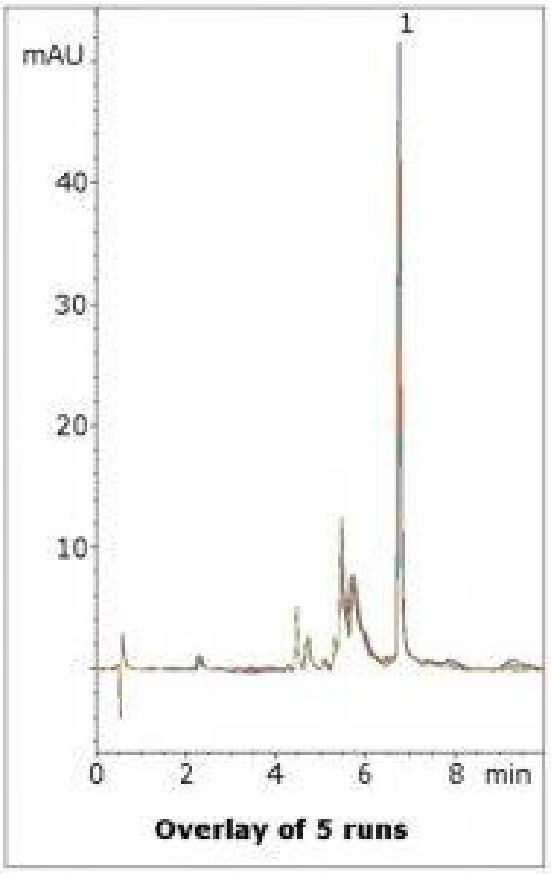
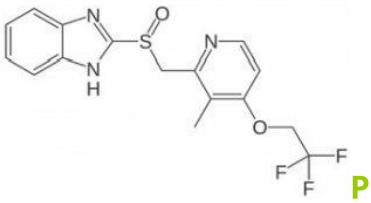
Lansoprazole Capsule Analyzed with HPLC - AppNote

Separation from matrix peaks

Lansoprazole is separated from several Matrix Components in this simple assay method. The Mobile Phase is LC-MS compatible so the method could be applied to more complex samples such as plasma. Five runs are shown in the figure to illustrate the repeatability of the data.





Peak:

Lansoprazole

Method Conditions

Column: Cogent Bidentate C18™, 2.2µm, 120Å

Catalog No.: 40218-05P-2

Dimensions: 2.1 x 50 mm

Mobile Phase:

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

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

Gradient:

Time *(minutes)*	%B
0	10
1	10
6	70
7	10

Injection vol.: 0.2 µL
Flow rate: 0.4mL / minute
Detection: UV @ 285 nm
Sample Preparation: 15mg strength Lansoprazole capsule contents were ground and added to a 25mL volumetric flask. A portion of 50/50 Solvent A / Solvent B was added and the flask was sonicated 10 minutes. Then it was diluted to mark and mixed. A portion was filtered through a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).
t_0: 0.5 minutes

Note: *Lansoprazole is a proton-pump inhibitor used for acid reducing effects. It is available over-the-counter by Novartis under the trade name Prevacid, as well as generic versions.*

COGENT HPLC Columns™

Attachment

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