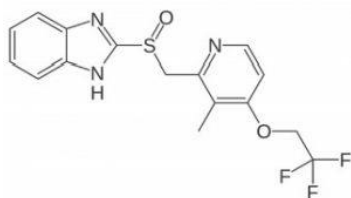
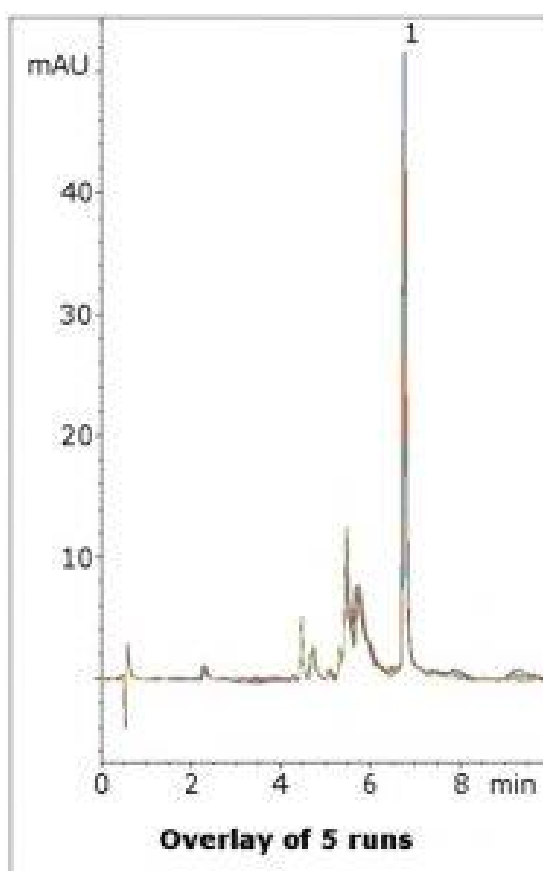


Lansoprazole Capsule Analyzed with HPLC - AppNote

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_o: 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.



Attachment

No 273 Lansoprazole Capsule Analyzed by HPLC pdf 0.3 Mb [Download File](#)

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