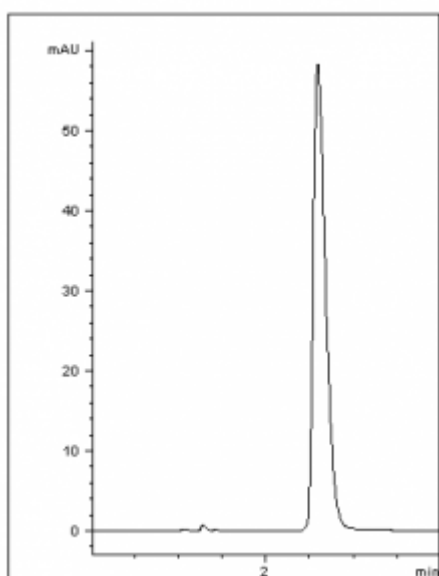


Molnupiravir Analyzed with an Inverse Gradient in HPLC - AppNote

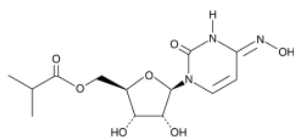
Oral Anti-Viral Medication - Aqueous Normal Phase Method

Molnupiravir can be analyzed using this simple "inverse gradient" HPLC Method shown below. This is offered as an orthogonal approach for a Reversed Phased Method and will show various polar impurities not detected by Reversed Phase HPLC.



Peak:

Molnupiravir



Method Conditions:

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

Dimensions: 4.6 x 75mm

Mobile Phase: (95:5) Acetonitrile / DI Water with 0.1% Formic Acid

Injection Volume: 1µL

Flow Rate: 1.0mL / minute

Detection: UV @ 254nm

Sample Preparation: Molnupiravir is dissolved at a concentration of 0.5mg / mL in (50:50) DI Water / Acetonitrile

Note: Molnupiravir is an oral antiviral drug that was developed for the treatment of influenza. It is a prodrug of the synthetic nucleoside derivative N4-hydroxycytidine, and exerts its antiviral action through introduction of copying errors during viral RNA replication.



Printed from the Chrom Resource Center

Copyright 2025, All Rights Apply

MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900

Fax: (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com