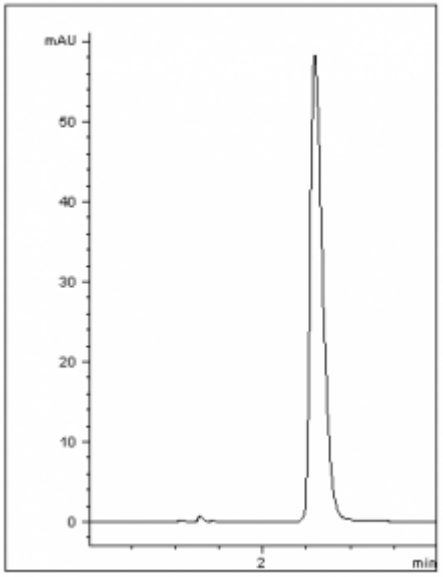
Molnupiravir Analyzed with HPLC - AppNote

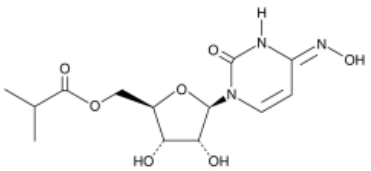
Oral Anti-Viral Medication - Aqueous Normal Phase Method

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 0.5 mg / 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.*

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