

## 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.



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