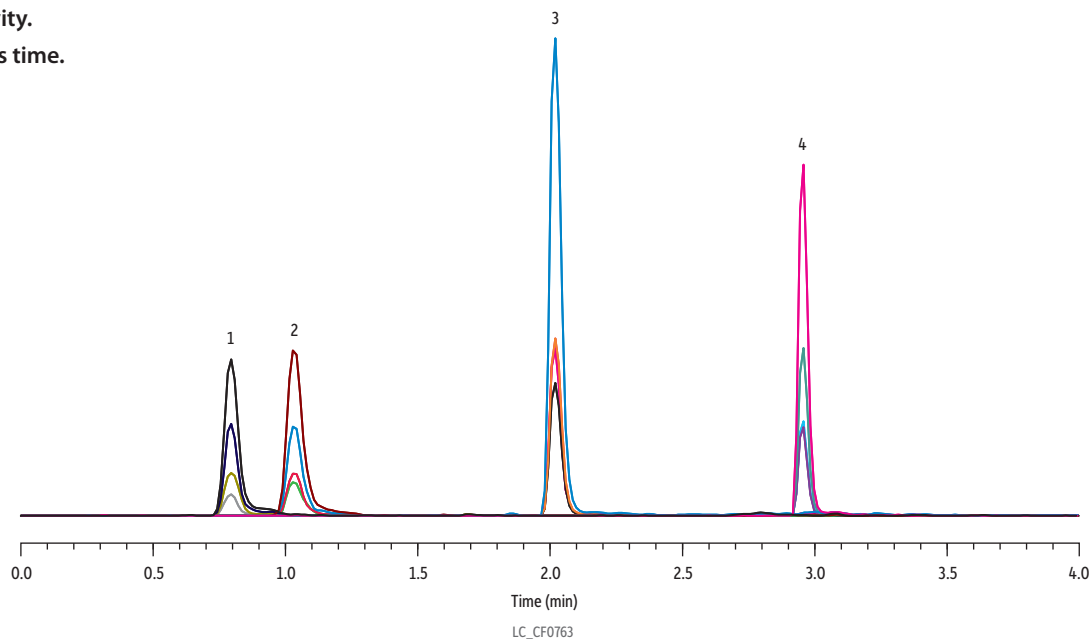


# Analysis of Remdesivir and Metabolites on Raptor Biphenyl by LC-MS/MS

- Retains all analytes.
- Good selectivity.
- Rapid analysis time.



Peaks	tr (min)	Conc. (ng/mL)	Precursor Ion	Product Ion	Product Ion	Product Ion
1. Remdesivir nucleoside monophosphate	0.8	500	372.1	202.1	147.2	229.1
2. GS-704277	1.1	500	443.1	202.2	124.1	229.2
3. GS-441524	2.1	500	292.0	202.1	163.1	147.1
4. Remdesivir	2.9	50	603.2	200.1	229.1	402.2

**Column** Raptor Biphenyl (cat.# 9309A52)  
**Dimensions:** 50 mm x 2.1 mm ID  
**Particle Size:** 2.7 µm  
**Pore Size:** 90 Å  
**Guard Column:** Raptor Biphenyl EXP 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252)  
**Temp.:** 30 °C

**Standard/Sample Diluent:** 0.1% Acetic acid in water  
**Inj. Vol.:** 2 µL

**Mobile Phase**  
**A:** Water, 0.1% acetic acid, 20 mM ammonium acetate  
**B:** Methanol, 0.1% acetic acid, 20 mM ammonium acetate

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	100	0
1.50	0.5	45	55
2.00	0.5	0	100
3.00	0.5	0	100
3.01	0.5	100	0
4.50	0.5	100	0

**Detector** MS/MS  
**Ion Source:** Electrospray  
**Ion Mode:** ESI+  
**Mode:** MRM  
**Instrument** UHPLC

**Sample Preparation** Aliquot 50 µL of plasma and add 200 µL of cold acetonitrile containing analytes. Vortex for 30 seconds and centrifuge for 10 minutes at 4200 rpm. Transfer 100 µL to vial and dry off solvent. Reconstitute with 100 µL of 0.1% acetic acid in water and vortex.