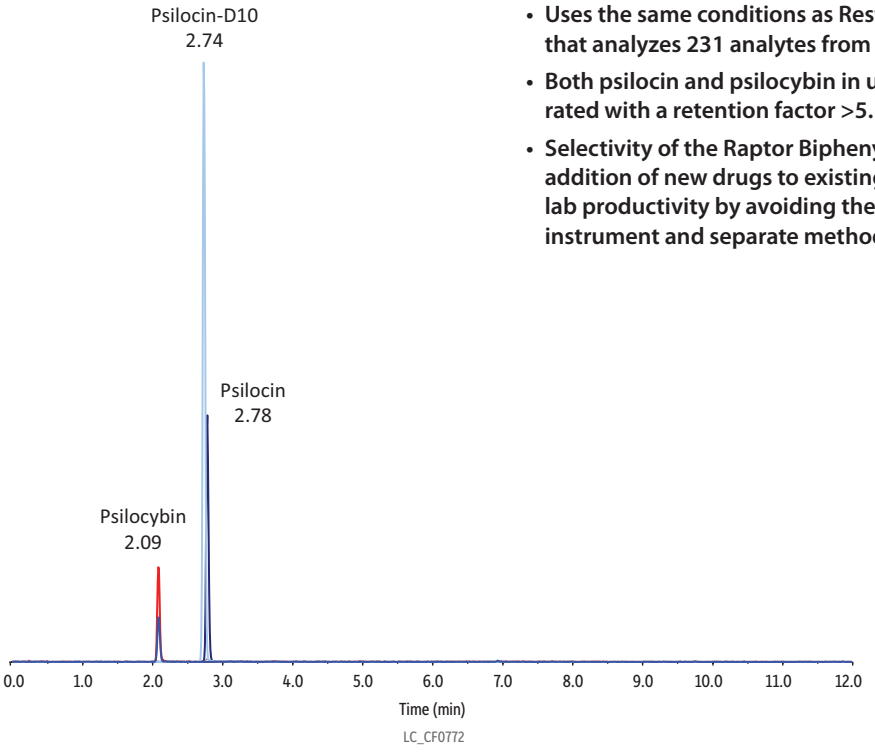
Psilocin and Psilocybin in Urine on Raptor Biphenyl by Restek's 'Big Pain' Method (CFAR2309-UNV)



- **Uses the same conditions as Restek's "Big Pain" method that analyzes 231 analytes from multiple drug classes.**
- **Both psilocin and psilocybin in urine samples are separated with a retention factor >5.**
- **Selectivity of the Raptor Biphenyl column allow the addition of new drugs to existing methods, improving lab productivity by avoiding the need for a dedicated instrument and separate method.**

Peaks	t_R (min)	Conc. (ng/mL)	Precursor Ion	Product Ion 1	Product Ion 2
1. Psilocybin	2.09	500	285.1	205.1	240.0
2. Psilocin-D10	2.74	200	215.1	66.1	-
3. Psilocin	2.78	500	205.1	160.1	115.0

Column Raptor Biphenyl (cat.# 9309A12)
Dimensions: 100 mm x 2.1 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: Raptor Biphenyl EXP guard column cartridge 5.0 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252)
Temp.: 30 °C

Sample
Diluent: Water, 0.1% formic acid + 2 mM ammonium formate
Conc.: 500 ng/mL
Inj. Vol.: 5 µL

Mobile Phase
A: Water, 0.1% formic acid + 2 mM ammonium formate
B: Methanol, 0.1% formic acid + 2 mM ammonium formate

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	95	5
9.00	0.6	0	100
10.00	0.6	0	100
10.01	0.6	95	5
12.00	0.6	95	5

Detector MS/MS
Ion Source: Electrospray
Ion Mode: ESI+
Mode: MRM
Instrument HPLC
Notes A 500 ng/mL standard mix of psilocin and psilocybin was prepared in pooled urine. A 50 µL aliquot was taken from the standard and mixed with 10 µL of internal standard (psilocin-D10, 20 µg/mL) and 100 µL of methanol. The mixture was vortexed at 3000 rpm for 10 seconds and centrifuged at 4300 rpm for 10 minutes at 10 °C. After centrifugation, 100 µL of the supernatant was diluted with 900 µL (20-fold dilution) of water containing 0.1% formic acid and 2 mM ammonium formate (mobile phase A) and injected for LC-MS/MS analysis.