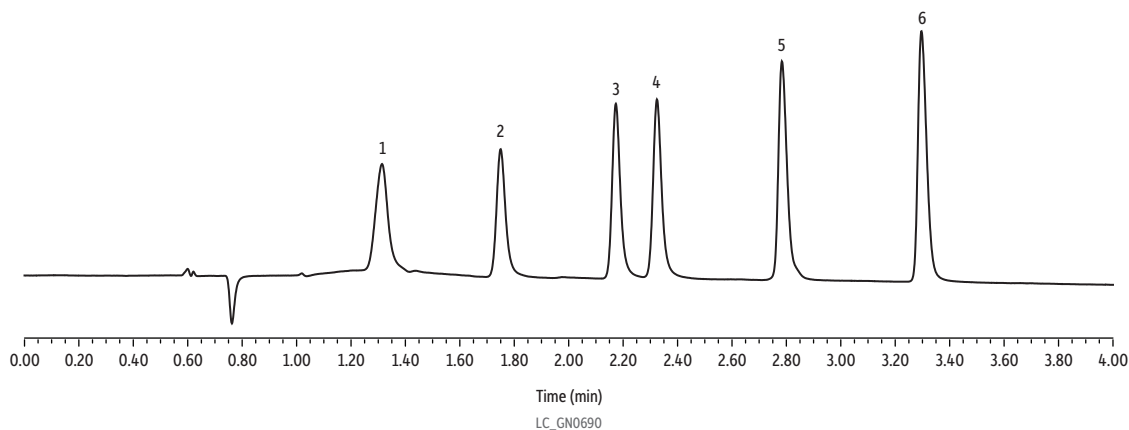


Analysis of 6 Alkaloids Common to Psychedelic Mushrooms on Force Biphenyl by HPLC-UV



Peaks	tr (min)
1. N,N-desmethyl Psilocybin (Norbaeocystin)	1.314
2. N-desmethyl Psilocybin (Baeocystin)	1.750
3. Aeruginascin	2.173
4. Psilocybin	2.324
5. 4-hydroxy-N-Methyltryptamine (Norpsilocin)	2.784
6. 4-hydroxy-N,N-Dimethyltryptamine (Psilocin)	3.296

Column Force Biphenyl (cat.# 962931E)
 Dimensions: 100 mm x 3.0 mm ID
 Particle Size: 3 µm
 Pore Size: 100 Å
 Guard Column: Force Biphenyl EXP Guard Cartridge 5 mm, 3.0 mm ID (cat.# 962950253)
 Temp.: 50 °C

Standard/Sample

Diluent: Water
 Conc.: 50 ppm
 Inj. Vol.: 1 µL

Mobile Phase

A: Water, 10 mM ammonium formate, 0.1% formic acid
 B: Methanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.8	95	5
4.00	0.8	65	35
4.01	0.8	5	95
5.00	0.8	5	95
5.01	0.8	95	5
8.00	0.8	95	5

Detector UV/Vis @ 222 nm

Flow Cell Size: 500 nL

Instrument Waters ACQUITY UPLC H-Class

Sample Preparation Standards were prepared in a 2.0 mL amber short-cap vial (cat.# 21142) with a 250 µL glass insert (cat.# 24518) and capped with a 9 mm short cap (cat.# 24497).

Notes

System and column were passivated using LC Passivation Solution (cat.# 32475). The outlined method conditions were used to perform five injections of passivation solution (5 µL) on column, diverting to waste. Five warm-up injections were completed prior to analysis.

Storage Conditions: Flush column using acetonitrile with 0.1% formic acid for 5 min.