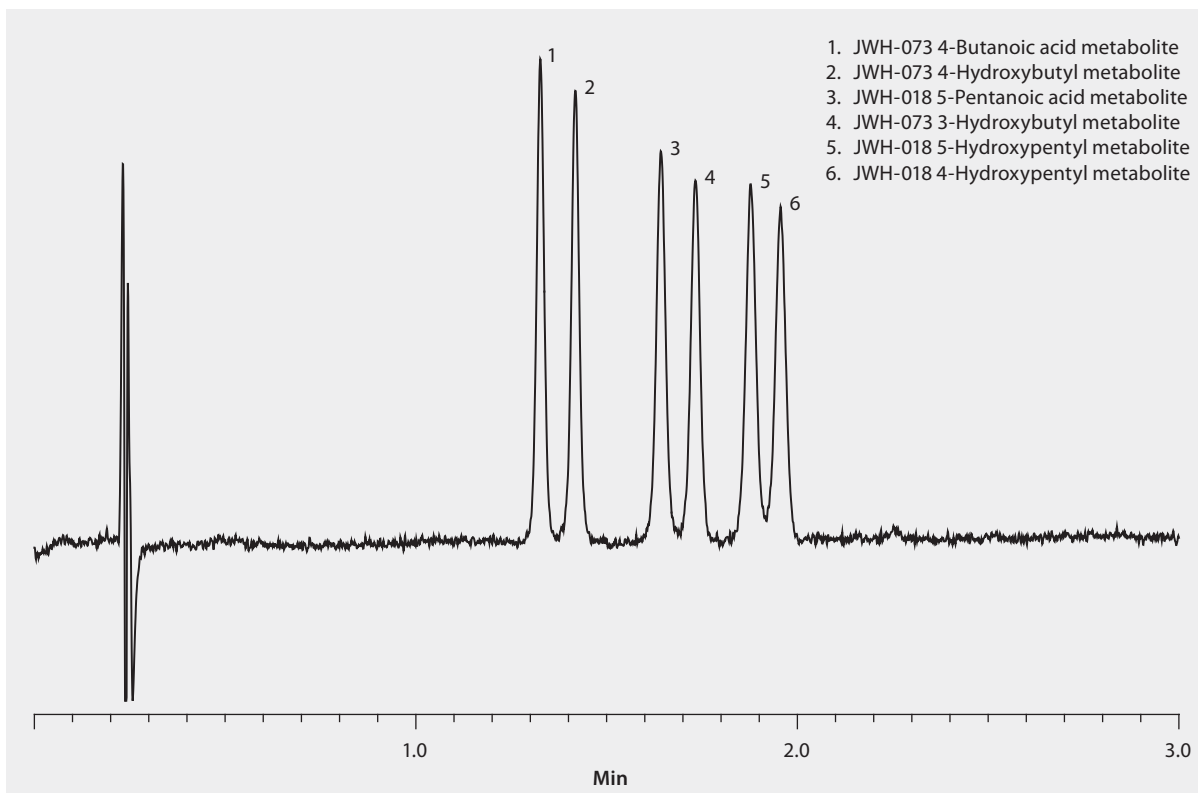


UHPLC Analysis of Synthetic Cannabinoid Metabolites on Ascentis® Express 2.0 µm C18

This rapid UHPLC analysis on Ascentis Express 2 µm C18 particles resolves six metabolites of synthetic cannabinoids JWH-018 and JWH-073 in less than two minutes. Synthetic cannabinoids are illicit substances that are smoked as components of herbal incense mixtures. In early 2011, the US Drug Enforcement Agency (DEA) placed several of the most popular synthetic cannabinoids, including JWH-018 and JWH-073, on their Schedule 1 list, making the possession or consumption of these compounds illegal.

| | |
|-----------------|--|
| market focus | Forensics and Toxicology |
| column | Ascentis Express C18, 10 cm x 2.1 mm I.D., 2.0 µm particles (50813-U) |
| mobile phase | [A] 0.1% formic acid; [B] 0.1% formic acid in acetonitrile; (55:45, A:B) |
| flow rate | 0.8 mL/min |
| pressure | 10800 psi (744 bar) |
| column temp. | 45 °C |
| detector | UV, 250 nm |
| injection | 0.5 µL |
| sample | 50 µg/mL in 70:30, water:methanol |
| Application No. | G006344 |



Components

- JWH-073 4-Butanoic acid metabolite solution ([Cerilliant S-036](#))
- JWH-073 4-Hydroxybutyl metabolite solution ([Cerilliant S-053](#))
- JWH-018 5-Pentanoic acid metabolite solution ([Cerilliant S-033](#))
- JWH-018 5-Hydroxypentyl metabolite solution ([Cerilliant S-054](#))
- JWH-073 3-Hydroxybutyl metabolite solution ([Cerilliant S-037](#))
- JWH-018 4-Hydroxypentyl metabolite solution ([Cerilliant S-035](#))

Related Products

- analytical column**
- Ascentis® Express C18, 2 Micron UHPLC Column ([Supelco 50813-U](#))
- eluent**
- Acetonitrile ([Fluka 14261](#))
- Formic acid ([Fluka 14265](#))
- Water ([Fluka 14263](#))
- standard**
- JWH-018 4-Hydroxypentyl metabolite solution ([Cerilliant S-035](#))
- JWH-018 5-Hydroxypentyl metabolite solution ([Cerilliant S-054](#))
- JWH-018 5-Pentanoic acid metabolite solution ([Cerilliant S-033](#))
- JWH-073 4-Butanoic acid metabolite solution ([Cerilliant S-036](#))
- JWH-073 3-Hydroxybutyl metabolite solution ([Cerilliant S-037](#))
- JWH-073 4-Hydroxybutyl metabolite solution ([Cerilliant S-053](#))