SFLT

Method: LSDSCRN

Separation of LSD and related substances by Liquid Chromatography

Scope: Limited purpose (LSD, iso-LSD, LAMPA)

Sample Preparation:

Samples will be prepared at a suitable concentration for identification and in any appropriate solvent, including and in any appropriate solvent, including but not limited to methanol, water, and phosphate buffer, or any combination of these. Internal standards may be used. Perform filtration and centrifugation, as necessary.

Method Parameters:

Instrument: High Performance Liquid Chromatograph HP/Agilent 1200 series equipped with a DAD
Column: XDB C18 150mm x 4.6mm x 5µm (or equivalent)
Column Temperature: 50°C
Buffer/Mobile Phase: 85Mm Sodium Phosphate buffer w/ Hexylamine and sodium azide (pH ~2.5)
Minimum Injection Volume: 5µL
Gradient Set Points: Isocratic 80% Phosphate Buffer: 20% Acetonitrile
Flow Rate: 1.0mL/min
Detection Wavelength: 210nm
Minimum Run Time: 7.5 min.

Limitations: See individual instrument validation reports.

Acceptance Criteria (unless otherwise noted in individual validation report):

Selectivity: Target compounds are visually separated and observed as a single peak with a clear, non-splitting apex. Peak fronting/tailing, if observed, does not preclude the detection of closely eluting peaks. A minimum S/N =3 is observed. Earliest eluting compound met minimum retention factor criteria and fulfilled the repeatability and reproducibility acceptance criteria.

Repeatability: Individual retention times measured are within 0.1 minutes of the average of 30 injections, and the individual relative retention times are with 1% of the average of 30 injections.

Reproducibility: Individual retention times measured during 6 weeks are within 0.1 minutes of the values measured on week 1, and the individual relative retention times during 6 weeks are within 1% of the values measured on week 1.