SFL3

Method: DC-ISOMER1-30

Separation of Controlled and Non-controlled Substances by Capillary Electrophoresis

Scope: Limited purpose (qualitative analysis and identification of phenethylamine isomers)

Sample Preparation:

Samples will be prepared at a suitable concentration for identification in Microsolv Injection Solvent (3.75 mM Sodium Phosphate pH=2.6), dilute hydrochloric acid, or dilute phosphoric acid.

Method Parameters:

Instrument: Capillary Electorphoresis (Sciex P/ACE MDQ plus) equipped with an UVNis detector
Capillary Type and Dimensions: 40.2cm (30 cm LEF) X 50 µm ID bare fused silica capillary
Capillary Temperature: 20º C
Injection Parameters: Sample for 10.0 sec at .3 psi; Water for 5.0 sec at .1 psi
Buffer: DEA Custom Chiral (inlet); CELixir B pH= 2.5 (outlet)
Voltage: 0.17 minute ramp to +30kV
Detection Wavelength: 195 nm (Bandwidth=10nmm, Minimum Sampling Rate = 16HZ, Reference Wavelength=400nm, Reference Bandwidth=100nm)
Minimum Run Time: 4.0 minutes

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.

Repeatability: Individual migration times measured are within 0.3 minutes of the average of all injections, and/or the individual relative retention times are within 1% of the average of all injections.

Reproducibility: Individual absolute and migration times measured during 6 weeks. Absolute migration times are within 0.3 minutes of the values measured on week 1, and/or the individual relative retention times are within 1% of the values measured on week 1.

SFL3

Method: DC-PHEN-30

Separation of Controlled and Non-controlled Substances by Capillary Electrophoresis

Scope: General purpose (qualitative analysis and identification of phenethylamine isomers)

Sample Preparation:

Samples will be prepared at a suitable concentration for identification in Microsolv Injection Solvent (3.75 mM Sodium Phosphate pH=2.6), dilute hydrochloric acid, or dilute phosphoric acid.

Method Parameters:

Instrument: Capillary Electorphoresis (Sciex P/ACE MDQ plus) equipped with an UVNis detector
Capillary Type and Dimensions: 40.2cm (30 cm LEF) X 50 µm ID bare fused silica capillary
Capillary Temperature: 15º C
Injection Parameters: Sample for 10.0 sec at .3 psi; Water for 5.0 sec at .1 psi
Buffer: CELixir B pH=2.5 (inlet); CELixir B pH= 2.5 (outlet)
Voltage: 0.17 minute ramp to +25kV
Detection Wavelength: 195 nm (Bandwidth=10nmm, Minimum Sampling Rate = 16HZ, Reference Wavelength=400nm, Reference Bandwidth=100nm)
Minimum Run Time: 3.5 minutes

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, including a low level (0.5%) marker compound.

Repeatability: Individual migration times measured are within 0.3 minutes of the average of all injections, and/or the individual relative retention times are within 1% of the average of all injections.

Reproducibility: Individual absolute and migration times measured during 6 weeks. Absolute migration times are within 0.3 minutes of the values measured on week 1, and/or the individual relative retention times are within 1% of the values measured on week 1.