

Instructions for Sample Testing

A total of nine sample solutions will be provided. The full list is attached in *Appendix A*.

The LC method conditions are indicated in *Appendix B*. Please **STRICTLY** follow the method provided. For mass acquisition, the Tenderer can use appropriate MS parameters. Please indicate the parameters used in the report.

Column will be provided. However please note that buffers will **NOT** be provided.

Additional points will be awarded if Tenderer is able to fulfil the criteria listed in *Appendix A, Section 4*.

Time provided for analysis will be one day, from 0930-1730.

Analysis results and supporting documents (eg. sequence printout, the MS parameters, proofs for Appendix A, Section 4) used for all samples shall be submitted **within 2 weeks after sample testing date.**

Appendix A

Section 1. Linearity (5%)

Sample	Analyte present	Concentration (ug/mL)	Instructions
A1 / A1-D	MDMA	200 / 2	1. Use either Set A1 to A3 <u>OR</u> Set A1-D to A3-D. 2. Inject each sample three times at 5 µL. 3. Acquire both UV and MS data. 4. Plot a linearity curve and determine the R ² value based on MS data.
A2 / A2-D		400 / 4	
A3 / A3-D		800 / 8	

Section 2. Accuracy (20%)

Sample	Analyte present	Instructions
B1 / B1-D	MDMA	1. Use either B1 <u>OR</u> B1-D. 2. Inject each sample two times at 5 µL. 3. Determine the average concentration of MDMA by using the linearity plot in Section 1.

Section 3. Sensitivity (5%)

Sample	Analyte present	Concentration (ug/mL)	Instructions
C1	Modafinil/ Modafiendz	1	1. Inject at 5 µL. 2. Indicate formula and mass of the molecular ion and its corresponding S/N ratio for the respective peaks in the TIC and EIC spectra.

Section 4. Other evaluation criteria (10%)

Tenderer has to be able to demonstrate the following criteria **with proof of brochure or live-video/screenshot**.

- System is able to switch on and off for power saving, and be able to pump down and be ready for sample analysis within one hour after switching on for efficient use of instrument. (5%)
- View of real-time spectra and signal are available even when no sample injection is performed. (2%)
- Able to extract UV data from MS chromatogram in the same window and vice versa. (3%)

Appendix B

Chromatographic conditions

LC conditions

Column: Kinetex® 2.6 µm Biphenyl 100 Å, 100 x 2.1 mm
Mobile phase A: 0.1% Formic acid in purified water
Mobile phase B: 0.1% Formic acid in LC-MS grade methanol
Gradient programme:

Time	Pump B Concentration (%)
0.00	5
0.50	30
2.00	95
4.00	95
4.01	30
7.50	-

Flow rate: 0.5000 mL/min
Column temperature: 35°C
Run time: 7.5 mins