

LAMPIRAN - A1

RUJ: BME/A2K/(1660)/2026/HTD (B4)

20/4/2026

ONE OFF PREVENTIVE MAINTENANCE FOR ONE (1) UNIT OF LIQUID CHROMATOGRAPHY MASS SPECTROMETRY (LCMS) SYSTEM, BRAND: THERMO FISHER SCIENTIFIC, MODEL: Q-EXACTIVE, S/N: 02224L, BME19923 AT FOOD CHEMISTRY SECTION, DEPARTMENT OF SCIENTIFIC SERVICES (W/O: 2026-11235).

SCOPE OF WORK

One-off preventive maintenance for one (1) unit of Liquid Chromatography Mass Spectrometry (LCMS) system, Brand: Thermo Fisher Scientific, Model: Q-Exactive, S/N: 02224L, BME19923, at Food Chemistry Section, Serasa Branch, Department of Scientific Services. Scope of work inclusive but not limited to:

- Preventive maintenance for the complete system, where the components of the system include:

1. Mass Spectrometer, Q-Exactive (S/N: 02224L)
2. Pump, HPG3400RS (S/N: 8092539)
3. Solvent Rack with Degassers, SRD-3600 (S/N: 7251060)
4. Autosampler, WPS-3000TRS (S/N: 8092008)
5. Column Compartment, TCC-3000RS (S/N: 6002192)
6. Peak Scientific Genius 1022 Nitrogen Generator (S/N: A14-09-333)
7. NeuroPower Frigate 10KS Uninterrupted Power Supply (UPS) Power System Battery Box (S/N: 83921408100179)

- Scope of work on the LCMS system to follow Thermo Fisher Scientific, preventive maintenance manual/recommendation specific for this system which include the following where necessary:

- (i) inspection
- (ii) cleaning
- (iii) installation of PM kits, consumables and spare parts listed in spareparts list (Lampiran A2)
- (iv) alignment
- (v) calibration
- (vi) any other related preventive maintenance works required.

- Functional check post-maintenance.

- Apply preventive maintenance sticker/tag after successful service.

- Disposal of any used spare parts/pm kits, unless otherwise instructed.

- Work on the LCMS system is to be carried out by engineer(s) authorised in providing maintenance to Thermo Fisher Scientific LCMS systems. Vendor to submit details of the engineer(s) including relevant training(s) undertaken.

- Vendor(s) to submit maintenance checklist specific for this Thermo Fisher Scientific LCMS system along with other necessary documents to join this tender.

- Upon approval, the earliest the preventive maintenance work can be carried out on the equipment is one month before the next PM due date, and not anytime earlier.

LAMPIRAN - A2

RUJ: BME/A2K/(1660)/2026/HTD (B4)

ONE OFF PREVENTIVE MAINTENANCE FOR ONE (1) UNIT OF LIQUID CHROMATOGRAPHY MASS SPECTROMETRY (LCMS) SYSTEM, BRAND: THERMO FISHER SCIENTIFIC, MODEL: Q-EXACTIVE, S/N: 02224L, BME19923 AT FOOD CHEMISTRY SECTION, DEPARTMENT OF SCIENTIFIC SERVICES (W/O: 2026-11235).

	SPAREPART	PART NUMBER	QUANTITY
1	Syringe, LC 500UL, 22,2 RN	365JLT41	2
2	Syringe, 25ul, WPS-3000	6822.0001	1
3	Maintenance Kit WSP-SL/RS, 62 MPA, Viper	40.1951C	1
4	Maintenance kit HPG-3x00RS	40.1956D	1
5	Pierce Negative ION Calibration Solution	8324	1
6	Pierce LTQ VELOS ESI Positive ION	8323	1
7	FIBER REservior TMH 260/262	105016	1
8	Filter -Exactive	123488	2
9	Capillary Mixer, 50 ul, SST, HPG-RS/SD	6040.301	1
10	Static Mixer 150ul (For 200ul), 150MPA	6040.511	1
11	Exhaust Filter-Sogevac SV65 BI FC	06150	1
12	32G mtl ndl regular flow kit	53010	1
13	Leybold oil LV0700, 2L	19927	1
14	Service kit NM32LA GeNIUS1022	MYL-1001	1
15	Accucore AQ HPLC Column 100 x 2.1mm	17326-102130	2
16	Syringe Adapter Kit	62011	1
17	VIPER CAP., IDXL 0.13X450MM,SST	2345	1