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Award

TIMSTOF Flex MALDI-2: A Quadrupole TOF instrument capable of rapid MALDI MS imaging with high spatial resolution, laser post-ionisation and ion mobility separation

National Physical Laboratory

F15: Voluntary ex ante transparency notice

Notice identifier: 2023/S 000-005077

Procurement identifier (OCID): ocds-h6vhtk-03a6fb

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Section I: Contracting authority/entity

I.1) Name and addresses

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

Email

mandy.morgan@npl.co.uk

Telephone

+44 2089776731

Country

United Kingdom

Region code

UK - United Kingdom

National registration number

02937881

Internet address(es)

Main address

www.npl.co.uk

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

TIMSTOF Flex MALDI-2: A Quadrupole TOF instrument capable of rapid MALDI MS imaging with high spatial resolution, laser post-ionisation and ion mobility separation

II.1.2) Main CPV code

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

II.1.3) Type of contract

Supplies

II.1.4) Short description

Our large-scale mass spectrometry imaging (MSI) studies require high throughput, high spatial resolution MSI analysis of multiple tissue sections, on multiple slides. Currently, of commercially available MSI instruments, matrix assisted laser desorption ionisation (MALDI) provides the best combination of spatial resolution and throughput. Crucially, high sensitivity for both lipids and metabolites must also be achieved. MALDI-2 has recently been shown to provide unrivalled limit-of-detection for a range of lipid and metabolite classes at high spatial resolution. The Bruker timsTOF Flex MALDI-2 instrument is the only commercially available instrument to feature MALDI-2 post ionisation and 5µm pixel size MSI

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: £1,600,000

II.2) Description

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

NPL Management Limited

II.2.4) Description of the procurement

Matrix assisted laser desorption ionisation (MALDI) provides the highest commercially available spatial resolution for high throughput multi-slide analysis of biological samples by MSI. Recent advances in laser post-ionisation, termed MALDI-2, have demonstrated significant improvement in limit-of-detection for a range of analyte classes. The timsToF Flex MALDI-2 microGRID instrument should feature a dual electrospray and MALDI MSI ion source. It should feature MALDI-2 laser post-ionisation functionality and 5 µm pixel size microGRID technology. It should provide 60,000 mass resolving power and scan rates of 20Hz. The instrument should also provide trapped ion mobility separation technology (TIMS) MSI functionality.

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Award of a contract without prior publication of a call for competition in the cases listed below

- The procurement falls outside the scope of application of the regulations

Explanation:

The Bruker timsTOF Flex with MALDI-2 is the only commercially available instrument to provide MALDI-2 post ionisation with high throughput imaging at 5 µm pixel size. Unique features of this instrument include:

1. MALDI MSI with MALDI-2 post-ionisation MSI
2. MALDI MSI 5 µm pixel size microGRID technology
3. Trapped ion mobility spectrometry with MALDI imaging and MALDI-2 post-ionisation

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: No

Section V. Award of contract/concession

Title

TIMSTOF Flex MALDI-2: A Quadrupole TOF instrument capable of rapid MALDI MS imaging with high spatial resolution, laser post-ionisation and ion mobility separation

A contract/lot is awarded: Yes

V.2) Award of contract/concession

V.2.1) Date of conclusion of the contract

20 February 2023

V.2.2) Information about tenders

The contract has been awarded to a group of economic operators: No

V.2.3) Name and address of the contractor/concessionaire

Bruker UK Ltd

Welland House, Torwood Close, Westwood Business Park

Coventry

CV4 8HX

Country

United Kingdom

NUTS code

- UK - United Kingdom

The contractor/concessionaire is an SME

No

V.2.4) Information on value of contract/lot/concession (excluding VAT)

Total value of the contract/lot/concession: £1,600,000

V.2.5) Information about subcontracting

The contract/lot/concession is likely to be subcontracted

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

NPL Management Limited

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