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Award

## **Select Series MRT Desorption Electrospray Ionization (DESI) system for sample preparation free tissue mass spectrometry imaging with superior molecular class coverage.**

National Physical Laboratory

F15: Voluntary ex ante transparency notice

Notice identifier: 2023/S 000-005059

Procurement identifier (OCID): ocds-h6vhtk-03a6ef

Published 20 February 2023, 3:31pm

### **Section I: Contracting authority/entity**

#### **I.1) Name and addresses**

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

#### **Email**

[mandy.morgan@npl.co.uk](mailto:mandy.morgan@npl.co.uk)

#### **Telephone**

+44 2089436731

#### **Country**

United Kingdom

**Region code**

UK - United Kingdom

**Internet address(es)**

Main address

[www.npl.co.uk](http://www.npl.co.uk)

**I.4) Type of the contracting authority**

Body governed by public law

**I.5) Main activity**

Other activity

Research

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**Section II: Object**

**II.1) Scope of the procurement**

**II.1.1) Title**

Select Series MRT Desorption Electrospray Ionization (DESI) system for sample preparation free tissue mass spectrometry imaging with superior molecular class coverage.

**II.1.2) Main CPV code**

- 380000000 - Laboratory, optical and precision equipments (excl. glasses)

**II.1.3) Type of contract**

Supplies

**II.1.4) Short description**

Desorption electrospray ionisation mass spectrometry imaging (DESI MSI) provides

excellent metabolic coverage and throughput with minimal sample preparation for tissue imaging in pre-clinical and clinical studies. Waters produce the only commercially available DESI MSI system. This latest innovation (Select Series MRT with DESI XS source) builds substantially on their previous DESI systems enabling superior image resolution, useability, reliability, mass accuracy 200,000 at scan rates of 10Hz.

#### **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: £868,170.40

### **II.2) Description**

#### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

#### **II.2.4) Description of the procurement**

Our research in evaluation of multiple mass spectrometry imaging modalities shows that DESI provides a uniquely powerful combination of minimal sample preparation, low limits-of-detection and broad metabolic coverage. The Select Series MRT folded time of flight instrument should be equipped with the DESI XS ion source including motorised sample analysis stage, sample view camera and heated inlet capillary. It should provide DESI MSI functionality whilst offering >200,000 mass resolving power, 10 µm pixel size over a full microscope slide comprised of multiple image regions area if desired. The DESI inlet capillary should have temperature controlled to enable optimisation of ionisation / transmission for different analyte classes. The solvent delivery for DESI sprayer should be provided by a HPLC type pump system.

#### **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

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## 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:

DESI MSI is only commercially available from Waters Ltd and coupled to their Select Series MRT folded time-of-flight instrument provides a powerful, high throughput, high sensitivity, high mass resolving power and high spatial resolution biological imaging system. Unique features of the Select Series MRT DESI instrument include:

1. Imaging of biomolecules from tissue by DESI MSI.
2. DESI MSI tissue analysis with mass resolving power of  $> 200,000$  in the  $m/z$  range 50 – 1000
3. DESI MSI tissue analysis with mass accuracy  $200,000$  mass resolving power at scan rates of 10 Hz

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

The procurement is covered by the Government Procurement Agreement: No

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## Section V. Award of contract/concession

### Title

Select Series MRT Desorption Electrospray Ionization (DESI) system for sample preparation free tissue mass spectrometry imaging with superior molecular class coverage.

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**

Waters Limited

Stamford Avenue, Altrincham Road

Wimslow

SK9 4AX

Country

United Kingdom

NUTS code

- UK - United Kingdom

National registration number

2912366

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: £868,170.40

**V.2.5) Information about subcontracting**

The contract/lot/concession is likely to be subcontracted

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**Section VI. Complementary information**

## **VI.4) Procedures for review**

### **VI.4.1) Review body**

NPL Management Limited

National Physical Laboratory

Teddington

TW11 0LW

Telephone

+44 2089773222

Country

United Kingdom