

209494-2026 - Resultater

Danmark – Massespektrometer – Low-flow liquid chromatography ultrahigh-resolution mass spectrometry platform

OJ S 60/2026 26/03/2026

Bekendtgørelse om indgåede kontrakter eller koncessionstildeling – standardordningen

Varer

1. Køber

1.1. Køber

Officielt navn: Danmarks Tekniske Universitet - DTU

E-mail: kafre@dtu.dk

Køberens retlige status: Offentligretligt organ

Den ordregivende myndigheds aktivitet: Uddannelse

2. Procedure

2.1. Procedure

Titel: Low-flow liquid chromatography ultrahigh-resolution mass spectrometry platform

Beskrivelse: DTU Sustain is working with environmental forensics and metabolomic investigations to study the fate and occurrence of chemicals and small molecules dispersed into the environment. To be able to make these investigations, DTU wants to procure a low-flow liquid chromatography ultrahigh-resolution mass spectrometry platform, capable of characterizing small molecules with collisional dissociation and laser-based ultraviolet-photodissociation (UVPD) for multi-stage molecular fragmentation (MSn) in liquid chromatography time scale. The mass spectrometer platform must have two independent mass detectors, and capable of resolving very complex molecular mixtures to improve unknown chemical characterization with fine isotope detection at one million in mass resolution (at mass-to-charge 200) or higher. The liquid chromatography system must be able to make chromatographic separations of complex mixtures at low-flow conditions (10-100 nano-liters per minute) and seamlessly integrated with nanoelectrospray ionization and controlled, jointly with the mass spectrometer, within the same software environment. In addition, the combined system must have;

- Two atmospheric pressure ionisation interfaces; heated electrospray ionisation (HESI) and nano-spray ionisation (NSI).
- A nanoflow UHPLC (ultra-high performance liquid chromatography) instrument that can be operated with the ultrahigh-resolution mass spectrometer, and the combined UHPLCHRMS system is operated within the same software environment.
- A nanoflow UHPLC instrument capable of operating from 1 nanoliter per minute to 100 microliter per minute in flow rate, and at backpressures up to 1500 bar.
- A nanoflow UHPLC instrument that consist of a binary high-pressure gradient pump, splitloop autosampler, an active nanoflow control unit and onboard user interface for immediate operation.
- A UHPLC instrument capable of maintaining sample temperature control within 4-40 oC and holding at least 216 sample vials at the same time.
- The UHPLC sampler must support a sample capacity of four sample racks and well plates (96 and 384, deep and shallow) without the need for external devices such as plate feeder.
- The user interface must provide guided workflow exchange and maintenance procedures.
- The mass spectrometer (MS) must be capable of operating at one million or higher in mass resolution at mass-to-charge (m/z) 200 to resolve complex environmental matrices.
- A mass spectrometer capable of performing higher-energy collisional dissociation and ultraviolet photodissociation for

multi-stage MSn-fragmentation in liquid chromatography time scale. • A mass spectrometer capable of fragment ion detection in either ion trap or high-resolution analyzer • A mass spectrometer capable of isolating precursor ions with a quadrupole filter with 0.7 FWHM resolution for $50 < m/z < 1000$. • A mass spectrometer that can perform automated iterative data-dependent acquisition in an integrated software solution. • A mass spectrometer that can perform data-dependent acquisition and data-independent acquisition. • A mass spectrometer with three mass analyzers build on quadrupole, linear ion trap, and Orbitrap technology. • A mass spectrometer with two independent mass detectors - one of them based linear ion trap technology - and both detectors must be capable of operating in parallel with each other. • A mass spectrometer with a removable ion sweep cone. • The mass spectrometer must be capable of switching polarities within 25 mili seconds • The mass spectrometer must be able to perform up to 10 stages of data-dependent fragmentations (MSn). • A mass spectrometer with normalized collision energy capability to automatically compensate for the mass dependent energy deposition and provide instrument-to-instrument fragmentation reproducibility. • A mass spectrometer with a data-dependent decision tree logic to automatic determine optimal fragmentation technique and analyzer during the LC run. • The high resolution mass analyzer must at least have an intra-spectrum dynamic range of 5000. • An ultraviolet photodissociation technology using a 213 nm laser architecture that is fully integrated in the mass spectrometer.

Identifikator for proceduren: e2d1bb17-3137-4d25-92c3-9b27224484af

Tidligere bekendtgørelse: 182365cc-d3f8-4ff3-845d-bb9241cd807f-01

Intern ID: 10694

Udbudsprocedure: Udbud med forhandling uden forudgående offentliggørelse

2.1.1. Formål

Kontraktens hovedformål: Varer

Primær klassifikation (cpv): 38433100 Massespektrometer

Supplerende klassifikation (cpv): 38000000 Laboratorieudstyr, optisk udstyr og præcisionsudstyr (ikke briller), 38400000 Instrumenter til kontrol af fysiske karakteristika, 38430000 Apparater til fysisk eller kemisk analyse, 38433000 Spektrometre

2.1.2. Udførelsessted

Postadresse: Miljøvej, building 113

By: Kgs. Lyngby

Postnummer: 2800

Landsdel (NUTS): Københavns omegn (DK012)

Land: Danmark

2.1.3. Værdi

Anslået værdi eksklusiv moms: 4 500 000,00 DKK

2.1.4. Generelle oplysninger

Indkaldelse af tilbud er afsluttet

Retsgrundlag:

Direktiv 2014/24/EU

The Danish Public Procurement Law - The Danish Public Procurement Law

5. Delkontrakt

5.1. Delkontrakt: LOT-0000

Titel: Low-flow liquid chromatography ultrahigh-resolution mass spectrometry platform

Beskrivelse: DTU Sustain is working with environmental forensics and metabolomic investigations to study the fate and occurrence of chemicals and small molecules dispersed into the environment. To be able to make these investigations, DTU wants to procure a low-flow liquid chromatography ultrahigh-resolution mass spectrometry platform, capable of characterizing small molecules with collisional dissociation and laser-based ultraviolet-photodissociation (UVPD) for multi-stage molecular fragmentation (MSn) in liquid chromatography time scale. The mass spectrometer platform must have two independent mass detectors, and capable of resolving very complex molecular mixtures to improve unknown chemical characterization with fine isotope detection at one million in mass resolution (at mass-to-charge 200) or higher. The liquid chromatography system must be able to make chromatographic separations of complex mixtures at low-flow conditions (10-100 nano-liters per minute) and seamlessly integrated with nanoelectrospray ionization and controlled, jointly with the mass spectrometer, within the same software environment. In addition, the combined system must have;

- Two atmospheric pressure ionisation interfaces; heated electrospray ionisation (HESI) and nano-spray ionisation (NSI).
- A nanoflow UHPLC (ultra-high performance liquid chromatography) instrument that can be operated with the ultrahigh-resolution mass spectrometer, and the combined UHPLCHRMS system is operated within the same software environment.
- A nanoflow UHPLC instrument capable of operating from 1 nanoliter per minute to 100 microliter per minute in flow rate, and at backpressures up to 1500 bar.
- A nanoflow UHPLC instrument that consist of a binary high-pressure gradient pump, splitloop autosampler, an active nanoflow control unit and onboard user interface for immediate operation.
- A UHPLC instrument capable of maintaining sample temperature control within 4-40 oC and holding at least 216 sample vials at the same time.
- The UHPLC sampler must support a sample capacity of four sample racks and well plates (96 and 384, deep and shallow) without the need for external devices such as plate feeder.
- The user interface must provide guided workflow exchange and maintenance procedures.
- The mass spectrometer (MS) must be capable of operating at one million or higher in mass resolution at mass-to-charge (m/z) 200 to resolve complex environmental matrices.
- A mass spectrometer capable of performing higher-energy collisional dissociation and ultraviolet photodissociation for multi-stage MSn-fragmentation in liquid chromatography time scale.
- A mass spectrometer capable of fragment ion detection in either ion trap or high-resolution analyzer
- A mass spectrometer capable of isolating precursor ions with a quadrupole filter with 0.7 FWHM resolution for $50 < m/z < 1000$.
- A mass spectrometer that can perform automated iterative data-dependent acquisition in an integrated software solution.
- A mass spectrometer that can perform data-dependent acquisition and data-independent acquisition.
- A mass spectrometer with three mass analyzers build on quadrupole, linear ion trap, and Orbitrap technology.
- A mass spectrometer with two independent mass detectors - one of them based linear ion trap technology - and both detectors must be capable of operating in parallel with each other.
- A mass spectrometer with a removable ion sweep cone.
- The mass spectrometer must be capable of switching polarities within 25 mili seconds
- The mass spectrometer must be able to perform up to 10 stages of data-dependent fragmentations (MSn).
- A mass spectrometer with normalized collision energy capability to automatically compensate for the mass dependent energy deposition and provide instrument-to-instrument fragmentation reproducibility.
- A mass spectrometer with a data-dependent decision tree logic to automatic determine optimal fragmentation technique and analyzer during the LC run.
- The high resolution mass analyzer must at least have an intra-spectrum dynamic range of 5000.
- An ultraviolet photodissociation technology using a 213 nm laser architecture that is fully integrated in the mass spectrometer.

Intern ID: 10694

5.1.1. Formål

Kontraktens hovedformål: Varer

Primær klassifikation (cpv): 38433100 Massespektrometer

Supplerende klassifikation (cpv): 38000000 Laboratorieudstyr, optisk udstyr og præcisionsudstyr (ikke briller), 38400000 Instrumenter til kontrol af fysiske karakteristika, 38430000 Apparater til fysisk eller kemisk analyse, 38433000 Spektrometre

5.1.2. Udførelsessted

Postadresse: Miljøvej, building 113

By: Kgs. Lyngby

Postnummer: 2800

Landsdel (NUTS): Københavns omegn (DK012)

Land: Danmark

5.1.3. Anslået varighed

Varighed: 1 År

5.1.5. Værdi

Anslået værdi eksklusiv moms: 4 500 000,00 DKK

5.1.6. Generelle oplysninger

Indkøbsprojekt, der ikke finansieres med EU-midler

Udbuddet er omfattet af aftalen om offentlige udbud (GPA): ja

5.1.10. Tildelingskriterier

Kriterium:

Type: Kvalitet

Navn: Kvalitet

Beskrivelse: Technical.

Kategori for tildelingskriteriet vægt: Vægtning (procentdel, præcis)

Tildelingskriterium talværdi: 100

5.1.15. Teknikker

Rammeaftale:

Ingen rammeaftale

Oplysninger om det dynamiske indkøbssystem:

Intet dynamisk indkøbssystem

5.1.16. Yderligere oplysninger, mægling og gennemgang

Organisation med ansvar for klager: Klagenævnet for Udbud

Oplysninger om klagefrister: Complaint regarding direct award of contract: Complaint that the Contracting Authority, contrary to the Public Procurement Act, has concluded a contract without prior publication of a contract notice in the European Union Official Journal must be submitted no later than 30 calendar days from the date after a contract award notice has been published by the Contracting Authority in the European Union Official Journal and that contract award notice includes the grounds for the decision to award the contract directly, cf. lov om Klagenævnet for Udbud (Complaints Board for Tenders) § 7, section 3.

Organisation, der leverer supplerende oplysninger om udbudsproceduren: Danmarks Tekniske Universitet - DTU

Organisation, der sikrer adgang til udbudsdokumenterne offline: Danmarks Tekniske Universitet - DTU

Organisation, der leverer yderligere oplysninger om klageprocedurerne: Konkurrence- og Forbrugerstyrelsen

Organisation, hvis budget anvendes til at betale for kontrakten: Danmarks Tekniske Universitet - DTU

Organisation, der udfører betalingen: Danmarks Tekniske Universitet - DTU

Organisation, der underskriver kontrakten: Danmarks Tekniske Universitet - DTU

6. Resultater

Værdien af alle kontrakter tildelt i denne bekendtgørelse: 4 500 000,00 DKK

Direkte tildeling

:

Begrundelse for direkte tildeling: Kontrakten kan kun tildeles af en bestemt økonomisk aktør på grund af manglende konkurrence af tekniske årsager

Anden begrundelse: As mentioned above DTU Sustain is working with environmental forensics and metabolomic investigations to study the fate and occurrence of chemicals and small molecules dispersed into the environment. The work involves creating untargeted metabolomic and non-target chemical analysis data recordings of trace level chemicals in complex environmental samples using liquid chromatography hyphenated with ultrahigh-resolution mass spectrometry. To be able to make these investigations, DTU wants to procure the instrument described above. The system will be essential for the research and teaching at DTU Sustain in describing and understanding environmental fate and occurrence processes of emerging pollutants. After extensive market research of commercially available systems and suppliers, DTU Sustain has concluded that the NanoUHPLC-HRMS/MS IQ-X system operating at 1 million in mass resolution with UVPD from Thermo Scientific is the only instrument meeting the high technical requirements needed for DTU Sustain to perform the variety of state-of-the-art experimental environmental research. Purchasing the NanoUHPLC-HRMS/MS IQ-X platform operating at 1 million in mass resolution with UVPD system from Thermo Scientific will fulfil the requirements from DTU Sustain and its broader user base and research areas as described above. No other supplier can deliver a similar system capable of solving the listed challenges.

6.1. Resultat delkontrakt-ID: LOT-0000

Status for udvælgelse af vinder: Der er udvalgt mindst én vinder.

6.1.2. Oplysninger om vinderne

Vinder:

Officielt navn: Thermo Electron A/S

Tilbud:

Tilbud – Identifikator: Thermo Electron A/S

ID for delkontrakt eller gruppe af delkontrakter: LOT-0000

Værdien af tilbuddet: 4 500 000,00 DKK

Tilbuddet blev rangordnet: nej

Underentreprise: Endnu ikke kendte

Kontraktoplysninger:

Identifikator for kontrakten: Thermo Electron A/S

Datoen for udvælgelsen af det vindende tilbud: 05/03/2026

Dato for indgåelse af kontrakten: 20/03/2026

Organisation, der underskriver kontrakten: Danmarks Tekniske Universitet - DTU

6.1.4. Statistiske oplysninger

Resumé af de klager som køberen har modtaget:

Antal klager: 0

Modtagne tilbud og ansøgninger om deltagelse:

Type modtagne indgivelser: Tilbud

Antal modtagne tilbud og ansøgninger om deltagelse: 1

Udvalg af tilbud:

Værdien af det antagelige tilbud med den laveste værdi: 4 500 000,00 DKK

Værdien af det antagelige tilbud med den højeste værdi: 4 500 000,00 DKK

8. Organisationer

8.1. ORG-0001

Officielt navn: Danmarks Tekniske Universitet - DTU

Registreringsnummer: 30060946

Postadresse: Anker Engelunds Vej 1

By: Kgs. Lyngby

Postnummer: 2800

Landsdel (NUTS): Københavns omegn (DK012)

Land: Danmark

Enhed: Katrine Freiesleben Petersen

E-mail: kafre@dtu.dk

Telefon: +45 45252525

Internetadresse: <https://www.dtu.dk>

Køberprofil: <https://eu.eu-supply.com/ctm/company/companyinformation/index/165863>

Denne organisations roller:

Køber

Organisation, der leverer supplerende oplysninger om udbudsproceduren

Organisation, der sikrer adgang til udbudsdokumenterne offline

Organisation, der underskriver kontrakten

Organisation, hvis budget anvendes til at betale for kontrakten

Organisation, der udfører betalingen

8.1. ORG-0002

Officielt navn: Klagenævnet for Udbud

Registreringsnummer: 37795526

Postadresse: Nævnenes hus, Toldboden 2

By: Viborg

Postnummer: 8800

Landsdel (NUTS): Østjylland (DK042)

Land: Danmark

E-mail: klfu@erst.dk

Telefon: +45 35291000

Internetadresse: <http://www.klfu.dk>

Denne organisations roller:

Organisation med ansvar for klager

8.1. ORG-0003

Officielt navn: Konkurrence- og Forbrugerstyrelsen

Registreringsnummer: 10294819

Postadresse: Carl Jacobsens Vej 35

By: Valby

Postnummer: 2500

Landsdel (NUTS): Byen København (DK011)

Land: Danmark

E-mail: kfst@kfst.dk

Telefon: +45 41715000

Internetadresse: <http://www.kfst.dk>

Denne organisations roller:

Organisation, der leverer yderligere oplysninger om klageprocedurerne

8.1. ORG-0004

Officielt navn: Thermo Electron A/S

Den økonomiske operatørs størrelse: Mikrovirksomhed, lille eller mellemstor virksomhed

Registreringsnummer: 28314388

Postadresse: Gydevang 33

By: Allerød

Postnummer: 3450

Landsdel (NUTS): Nordsjælland (DK013)

Land: Danmark

Denne organisations roller:

Tilbudsgiver

Vinder af disse delkontrakter: LOT-0000

8.1. ORG-0005

Officielt navn: Merzell Holding ASA

Registreringsnummer: 980921565

Postadresse: Askekroken 11

By: Oslo

Postnummer: 0277

Landsdel (NUTS): Oslo (NO081)

Land: Norge

Enhed: eSender

E-mail: publication@merzell.com

Telefon: +47 21018800

Fax: +47 21018801

Internetadresse: <http://merzell.com/>

Denne organisations roller:

TED eSender

Oplysninger om bekendtgørelsen

Bekendtgørelsens ID: ecf233c2-3a70-4d48-9767-5d1a18a83e53 - 01

Formulartype: Resultater

Bekendtgørelsestype: Bekendtgørelse om indgåede kontrakter eller koncessionstildeling – standardordningen

Bekendtgørelsesundertype: 29

Afsendelsesdato for bekendtgørelsen: 25/03/2026 08:33:00 (UTC+00:00) vesteuropæisk tid, GMT

Dato for afsendelse af bekendtgørelsen (eSender): 25/03/2026 08:33:40 (UTC+00:00) vesteuropæisk tid, GMT

Bekendtgørelsens officielle sprog: engelsk

Bekendtgørelsesnummer: 209494-2026

