



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
Cabot Place, Phase II, 2nd Floor
Box 4600
St. John's, NL
A1C 5T2
Bid Fax: (709) 772-4603

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
PWGSC / TPGSC - Nfld. Region
Cabot Place, Phase II, 2nd Floor
Box 4600
St. John's, NL
A1C 5T2

Title - Sujet LTQ Orbitrap with Mass Spectrometer	
Solicitation No. - N° de l'invitation F6070-190002/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client F6070-190002	Date 2019-06-27
GETS Reference No. - N° de référence de SEAG PW-\$XAQ-021-7290	
File No. - N° de dossier XAQ-9-42014 (021)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-07-02	Time Zone Fuseau horaire Newfoundland Daylight Saving Time NDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Lacey (XAQ), Rhonda	Buyer Id - Id de l'acheteur xaq021
Telephone No. - N° de téléphone (709) 730-1597 ()	FAX No. - N° de FAX (709) 772-4603
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

AMENDMENT 01**Insert:****2.1.1 SACC Manual Clause****SACC Manual Clause B4024T (2017-07-01) No Substitute Products**

Justification for the no substitute clause.

DFO is requesting the supply of an LTQ Orbitrap with LTQ Mass Spectrometer with no substitution. This instrument is requested because of the unique glycomics, lignomics and proteomics analyses that is being conducted by researchers within the laboratory. The high-resolution up to 100,000 and accurate-mass <2 ppm resolution systems will detect a wide range of high molecular weight biomolecules and small molecules and series of compounds, which are extremely sensitive. These capabilities will allow researchers to isolate the specific biomarkers for their research.

Researcher has unsuccessfully completed analysis on a Triple Quadrupole Mass Spectrometer, Triple Quadrupole Time-of-Flight Hybrid Mass Spectrometer and a MALDI Mass Spectrometer to isolate and identify biologically active compounds from Antigens derived from Gram-negative fish disease bacteria, Synthetic Fish glycoconjugate vaccines (sugar-proteins biomolecule) and from Estolides complex which are substituted triacyl glycerol derivatives obtained from Sporopollenin intact microcapsules which can be found in nature and could be used as delivery vessels for bioactive compounds. It is known that Sporopollenin the most exceptionally resistant materials known in the organic world. In addition, the lignomics analysis performed from the lignin oligomers obtained by the new state-of-the art BioEB extraction process.

Only the LTQ Orbitrap with LTQ Mass Spectrometer has been proven to identify these series of compounds, the reason why DFO is requesting this type of non-bulky instrument. This hybrid FT mass spectrometer combine a linear ion trap MS and the orbitrap mass analyzer. The ions generated by API are collected in the LTQ XL followed by axial ejection to the C-shaped storage trap which will be used to store and collisionally cool the ions before injection into the orbital trap. This instrument also features a new HCD collision cell for ultimate fragmentation experiments for the DFO advanced glycomics, proteomics and lignomics research.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED