

# Agreed Work Order Form

In respect of the LTSA Call-Off Agreement dated 11 March 2015.

HSE have specific schedules of work under the Framework Agreement Appendix 4.


## Customer to complete:

<b>Parties to Additional Services:</b>	THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS acting through HSE  and  Fera Science Limited a company incorporated in England and Wales (registered with number 09413107) and whose registered office is at 30 Berners Street, London W1T 3LR (the "Company"). <b>FERA SCIENCE LIMITED</b> a company incorporated in England
<b>Customer Directorate:</b>	
<b>Customer day to day contact (name, email, telephone):</b>	
<b>Additional Services Title:</b>	Development of a method for analysis of 1,4-Dimethylnaphthalene in animal product.
<b>Additional Services Ref:</b>	N/A
<b>Start Date:</b>	14 February 2022
<b>End Date:</b>	31 March 2022

## Details of work requirement:

<b>R&amp;D Call-Off</b>	N/A
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<b>Omnicom Code:</b>	
<b>Other call off Agreements:</b>	
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<b>Aim and Objectives of the requirement:</b>	1,4-dimethylnaphthalene (DMN) is approved in the EU for sprout control in potatoes. The metabolism of 1,4-dimethylnaphthalene residues in livestock was investigated in lactating goats and laying hens using radiolabelled 1,4-dimethylnaphthalene. The only major metabolite was identified as conjugate of M23. This work will be designed to validate and implement a method for analysis of samples of animal origin.
<b>Policy Rationale:</b>	The background is that the Minister wants to be reassured that the high levels in potatoes do not pass into animal products and pose a risk to infants..
<b>Main Deliverables and Performance Indicators</b>	<p>Phase 1:</p> <p>Carry out a brief literature review to identify availability of methods for the analysis of 1,4-dimethylnaphthalene and relevant metabolites in animal products and agree next steps with HSE.</p> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>i. Obtained analytical standards for M23</li> <li>ii. Set-up published method(s)</li> <li>iii. Optimise and modify depending on the success of step 1.</li> </ul> <p>Phase 3:</p> <p>Validate the methods in Milk and pork.</p> <p>Phase 4.</p> <p>Final Report and recommendations for further work</p>

	To adhere to all the same quality standards required and specified in the core LTSA for this work.															
<b>Is Personal data to be used in this requirement?</b>  <b>Please outline information on any personal data</b>	N/A															
<b>Required deliverables:</b>	<b>Project outputs</b> <table border="1"> <thead> <tr> <th>Deliverable/Milestones</th><th>Description</th><th>Date</th></tr> </thead> <tbody> <tr> <td>D1 – Literature review</td><td>Section of the report covering the existing methods</td><td>19/02/22</td></tr> <tr> <td>D2 – Set up and optimise</td><td>Obtain analytical standards Set-up and optimise extraction and instrumental methods</td><td>12/03/22</td></tr> <tr> <td>D3 – Validation</td><td>Validate methods for milk and pork</td><td>31/03/22</td></tr> <tr> <td>D4 – Final report</td><td></td><td>30/04/22</td></tr> </tbody> </table>	Deliverable/Milestones	Description	Date	D1 – Literature review	Section of the report covering the existing methods	19/02/22	D2 – Set up and optimise	Obtain analytical standards Set-up and optimise extraction and instrumental methods	12/03/22	D3 – Validation	Validate methods for milk and pork	31/03/22	D4 – Final report		30/04/22
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<b>Requirement</b>	See above and embedded project plan below.															
	 Proposed%20work %20plan%20for%20															

**Fera to complete:**

Fera day to day contact (name, email, telephone):				
Total cost of Additional Services (Call-Off Day Rates set out in Schedule 10 of the Framework Agreement shall apply to the additional services set out in this Work Order).				
	Total cost should be quoted less VAT which should be added to invoices at the prevailing rate.			
Cost by Financial Year	2021-22			
Total	£10,000			

**Fera to complete where proposed work will impact on Plant and Bee Health Call-Off Agreement and Specialist Facilities and Services Call-Off Agreement:**

Does the delivery of this additional work affect delivery of the agreed annual plan and/or use the facilities covered by the above agreements?	No  If yes please describe below:
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**Authorising Signatures:**

Name	Role	Organisation	Date	Signature
Andrea Waller	Director	Fera		
Tommy Johnson	Head of Procurement	HSE		