

TEST REPORT:  
Reference No. FR/000053 – E&W Shellfish 2016



**Test:** PAH  
**Report Date:** 31<sup>st</sup> May 2016

**Client Details**

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**Sample Details:**

**Sample Details:** 2\*Mussels  
1\*Pacific Oysters  
  
**Date of Receipt:** January 2016  
  
**Contract Reference No:** FSA199/C5669

**Method used [1]:** Detailed in FSG SOP 410

**Outline of Method:**

An aliquot of the homogenised sample was fortified with appropriate <sup>13</sup>C Internal standards and subjected to saponification followed by liquid-liquid extraction. Clean-up is by DMF/cyclohexane partition followed by elution through a silica gel column. Analysis is by HRGC – LRMS.

The results have been expressed on a whole weight basis. Benzo(a)pyrene (BaP) is marked in bold. The sum of the 4 PAH compounds (also marked in bold including BaP), that are included in EU regulation, (EC) No. 835/2011, have also been given as upper and lower bound (assuming non detected or below limit of detection compounds are at the Limit of Detection or at zero concentrations respectively). All samples tested showed concentrations below maximum permitted levels (MPL) of 5 µg/kg BaP and 30 µg/kg PAH4.

The results are UKAS accredited (UKAS testing laboratory No.1642).  
UKAS accreditation is to the ISO 17025 standard.

Document prepared by:	J. Holland, Fera	
Document checked by:	F.Smith, Fera	Review Date: N/A
Document approved by:	Service Delivery Manager - J. Holland	Classification: Not classified





References.

1. M.Rose, S.White, R.Macarthur, R.G.Petch, J.Holland, & A.P.Damant (2007). Single - laboratory validation of a GC/MS Method for the determination of 27 polycyclic aromatic hydrocarbons (PAHs) in oils and fats. *Food Additives & Contaminants Vol 24 Number 6 June 2007*, 635-651
2. Commission Regulation (EC) No 1881/2006 of 19 December 2006 setting maximum levels for certain contaminants in foodstuffs. Official Journal of the European Union, L364, 20/12/2006, 0005-0024.
3. Commission Regulation (EU) No 835/2011 of 19 August 2011 amending Regulation (EC) No 1881/2006 as regards maximum levels for polycyclic aromatic hydrocarbons in food stuffs.
4. FAPAS Proficiency Test 0658 Report, Environmental Contaminants, PAHs in Cocoa butter July – August 2014. (Participant laboratory consensus values and preparation homogeneity data used for setting the acceptance criteria for use as an in-house reference material.)

*This report has been prepared by FERA after exercise of all reasonable care and skill, but is provided without liability in its application and use.*

*Opinions and interpretation are outside the scope of UKAS accreditation.*