Survey of Scientific Literature
Trace Elements in Food: Meat and Offal

This list has been drafted for EURL-CEFAO scope and is not to be considered exhaustive. The listing does not imply any endorsement by the EURL or in any way mean a negative judgment, in case some article is missing.

1. Classification of trace elements in tissues from organic and conventional French pig production

2. The Influence of the Rearing Area upon Cd, Al and Pb Levels in Pork Meat
   *ProEnvironment* **2017** 10: 286 – 290

3. Application of inductively coupled plasma–mass spectrometry for trace element characterisation of equine meats
   O. Miedico, M. Iammarino, M. Tarallo, A. E. Chiaravalle

4. Direct Determination of Trace Elements in Meat Samples via High-Resolution Graphite Furnace Atomic Absorption Spectrometry
   *Food Analytical Methods*, **2017**, 10: 1209–1215
5. Cadmium in liver and kidneys of domestic Balkan and Alpine dairy goat breeds from Montenegro and Serbia
   Food Additives & Contaminants, 2017, Part B, 10:2, 137-142

6. Mineral composition and toxic element levels of muscle, liver and kidney of intensive (Swedish Landrace) and extensive (Mangulica) pigs from Serbia

7. Micropollutants and chemical residues in organic and conventional meat
   Food Chemistry 2017, 232: 218–228

8. Total Mercury, Methylmercury, Inorganic Arsenic and Other Elements in Meat from Minke Whale (Balaenoptera acutorostrata) from the North East Atlantic Ocean
   A. Maage, B. M. Nilsen, K. Julshamn, L. Frøyland, S. Valdersnes
   Bulletin of Environmental Contamination and Toxicology 2017, 99: 161–166

9. The content of selected minerals determined in the liver, kidney and meat of pigs
   K. Stasiak, A. Roślewska, M. Stanek, D. Cygan-Szczezielnia, B. Janicki

10. Essential and toxic trace element concentrations in different commercial veal cuts in Spain
    M. López-Alonso, M. Miranda, J. L. Benedito, V. Pereira, M. García-Vaquero
    Meat Science 2016, 121: 47–52
11. Evaluated the Twenty-Six Elements in the Pectoral Muscle of As-Treated Chicken by Inductively Coupled Plasma Mass Spectrometry  
   B. Sun & M. Xing  

12. A fast alkaline treatment for cadmium determination in meat samples  
   T. S. C. P. Aranha, A. Oliveira, H. M. Queiroz, S. Cadore  

13. Determination of some metal ions in various meat and baby food samples by atomic spectrometry  
   T. Dasbas, S. Saçmac, A. Ülgen, S. Kartal  
   *Food Chemistry* **2016**, 197: 107-113

   D. G. Kim, M. Kim, J. Shin, S.W. Son  

15. Concentration of cadmium in meat and selected meats products  
   A. Lukáčová, L. Lopašovský, Z. Kňažická, J. Golian  
   *Journal of Microbiology, Biotechnology and Food Sciences* **2015**, 4: 102-105

16. The content of selected metals in muscles of the red deer (Cervus elaphus) from Poland  
   M. Skibniewski, E. M. Skibniewska, T. Košla  

17. Development and validation of single particle ICP-MS for sizing and quantitative determination of nano-silver in chicken meat  
   R. J. Peters, Z. H. Rivera, G. van Bemmel, H. J. Marvin, S. Weigel, H. Bouwmeester  
18. Non-essential and essential trace element concentrations in meat from cattle reared under organic, intensive or conventional production systems
*Food Additives and Contaminants* **2010**, 70: 36-42

19. Total mercury determination in different tissues of broiler chicken by using cloud point extraction and cold vapor atomic absorption spectrometry
*Food and Chemical Toxicology* **2010**, 48: 65–69

20. Variability of selected trace elements of different meat cuts determined by ICP-MS and DRC-ICPMS
*Animal* **2009**, 3: 166-172

21. Accumulation of trace elements in cattle from rural and industrial areas in Belgium
N. Waegeneers, J. C. Pizzolon, M. Hoenig, L. De Temmerman
*Food Additives and Contaminants* **2009**, 26: 326-332

22. Levels of As, Cd, Pb, Cu, Se and Zn in bovine kidneys and livers in Jamaica
J. Nriagu, M. Boughanen, A. Linder, A. Howe, C. Grant, R. Rattray, M. Vutchkov, G. Lalor
*Ecotoxicology and Environmental Safety* **2009**, 72: 564-571

23. Variability of selected trace elements of different meat cuts determined by ICP-MS and DRC-ICPMS

24. Comparative study of trace elements in certain fish, meat and meat products
D. Demirezen, K. Uruc
25. Aspects of meat quality: trace elements and B vitamins in raw and cooked meats
   G. Lombardi-Boccia, S. Lanzi, A. Aguzzi

26. Feeding and meet quality - a future approach
   H. J. Andersen, N. Oksbjerg, J. F. Young, M. Therkildsen

27. Validation of mineralisation procedures for the determination of selenium, zinc, iron and copper in chicken meat and feed samples by ICP-AES and ICP-MS
   R. Bou, F. Guardiola, A. Padró, E. Pelfort, R. Codony

28. Interactions between toxic (As, Cd, Hg and Pb) and nutritional essential (Ca, Co, Cr, Cu, Fe, Mn, Mo, Ni, Se, Zn) elements in the tissues of cattle from NW Spain
   M. López Alonso, F. P. Montaña, M. Miranda, C. Castillo, J. Hernández, J. L. Benedito

29. Contribution of cattle products to dietary intake of trace and toxic elements in Galicia, Spain

30. Interactions between toxic and essential trace metals in cattle from a region with low levels of pollution
   *Archives of environmental contamination and toxicology* **2002**, 42: 165-172

31. Heavy metal contents in Egyptian meat and the role of detergent washing on their levels
   A. A. K. Abou-Arab
   *Food and Chemical Toxicology* **2001**, 39: 593-599
32. Cadmium levels in liver, kidney and meat in calves from Asturias (North Spain)
   M. Miranda, M. Lopez Alonso, C. Castillo, J. Hernández, J. L. Benedito
   *European Food Research and Technology* **2001**, 212: 426-430

33. Cadmium in Organic and Conventional Pig Production
   A. Lindén, K. Andersson, A. Oskarsson
   *Archives of environmental contamination and toxicology* **2001**, 40: 425-431

34. Toxic and trace elements in liver, kidney and meat from cattle slaughtered in Galicia (NW Spain)
   M. Lopez Alonso, J. L. Benedito, M. Miranda, C. Castillo, J. Hernández, R. F. Shore

35. Content of some Trace Elements and Minerals in the Italian Total-diet
   G. Lombardi-Boccia, A. Aguzzi, M. Cappelloni, G. Di Lullo
   *Journal of Food Composition and Analysis* **2000**, 13: 525-527

36. Arsenic, cadmium, lead, copper and zinc in cattle from Galicia, NW Spain
   M. López Alonso, J. L. Benedito, M. Miranda, C. Castillo, J. Hernández, R. F. Shore

37. Proximate and heavy metal composition in chicken meat and tissues
   A. Demirbas

38. Heavy metal contents of livestock feeds and animal manures in England and Wales
   F. A. Nicholson, B. J. Chambers, J. R. Williams, R. J. Unwin
   *Bioresource Technology* **1999**, 70: 23-31
39. Cadmium and lead in pork and duck liver pastes produced in Spain
   S. Sola, T. Barrio, A. Martin

40. Variability of Selected Vitamins and Trace Elements of Different Meat Cuts
   M. Leonhardt, C. Wenk

41. Lead and cadmium concentrations in meat, liver and kidney of Slovenian cattle and pigs from 1989 to 1993
   D. Z. Doganoc

42. Dietary intake, levels in food and estimated intake of lead, cadmium, and mercury
   H. Galal-Gorchev

43. Lead, cadmium, arsenic and mercury in meat, liver and kidney of Swedish pigs and cattle in 1984-88
   L. Jorhem, S. Slorach, B. Sundström, B. Ohlin
   *Food Additives and Contaminants* **1991**, 8: 201-212

44. Manganese, copper, zinc, iron, cadmium, mercury and lead in muscle meat, liver and kidneys of poultry, rabbit and sheep slaughtered in the northern part of Poland, 1987
   J. Falandysz

45. Toxic and essential trace elements in meat - a review
   J.J. Doyle and J.E. Spaulding