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For food law enforcement authorities in England, port health authorities in England, and other interested parties

National Monitoring Plan (NMP) sampling priorities for 2021-22

Summary: This is the revised UK National Monitoring Plan (NMP) sampling priorities table for the import of products of animal origin (POAO) for the period April 2021 to March 2022.

Dear colleagues,

I am attaching the revised UK National Monitoring Plan (NMP) sampling priorities table for the import of products of animal origin (POAO) for the period April 2021 to March 2022 which becomes effective from 1 April 2021.

The objective of the NMP is to make sure that food imported into the UK complies with relevant legislation, and to detect residues, pathogenic organisms or other substances dangerous to humans, animals or the environment. The NMP is updated annually and is based on the nature of the products and the risk they represent, taking into account all relevant monitoring parameters such as frequency and number of incoming consignments, and results of previous monitoring.

Should you have any queries, please do not hesitate to contact the Imported Food team by email <u>Imported.Food@food.gov.uk</u> clearly marked: "NMP sampling priorities table 2021-22" on the subject line.

Yours sincerely,

Beatriz Lopez-Melgar Imported Food Intelligence Adviser Imports & Exports Unit

National Monitoring Plan (NMP) – Imported POAO sampling priorities between April 2021 & March 2022

High priority
Medium priority
Low priority

Bovine

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Bovine	Salmonella (screen for AMR where possible), E. coli (screen for AMR where possible), Shiga toxin producing E. coli (STEC), Listeria monocytogenes	Minced meat and meat preparations intended to be eaten raw (e.g. steak tartare). Minced meat and meat preparations intended to be eaten cooked .
High	Bovine	Hormonal growth promoters (particularly trenbolone and zeranol)	Raw meats.
Medium	Bovine	E. coli (screen for AMR where possible), STEC	Fresh meats intended to be eaten cooked .
Medium	Bovine	Veterinary medicine residues: Anthelmintics including Benzimidazoles (Albendazole), Abamectin, Doramectin, Moxidectin and Ivermectin	Corned beef including from Brazil, and cooked beef. Raw beef and bovine casings. [Care should be taken when reporting these results to make clear the legislation or other basis for sampling. In particular bovine meat and fat samples collected in 2021 should not be recorded as taken under Regulation (EU) 2019/533].

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Low	Bovine	Lead / Cadmium	Include offal (kidney and liver).
Low	Bovine	Dioxins/PCBs	Limits for bovine meat and liver.
Low	Bovine	BaP and PAH	Smoked meat and heat-treated meat products (flame-grilled burgers are high risk although unlikely to be imported). Raw meats are not susceptible to BaP contamination.

Ovine

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Ovine	Veterinary medicine residues: Nitrofurans & Chloramphenicol	Sheep casings, from China in particular. Frozen lamb.
High	Ovine	Salmonella (screen for AMR where possible), E. coli (screen for AMR where possible)	Ready-to-eat minced meat, meat preparations and meat products intended to be eaten raw.
Medium	Ovine	Salmonella (screen for AMR where possible), E. coli (screen for AMR where possible)	Minced meat and meat preparations intended to be eaten cooked , raw lamb.
Low	Ovine	Lead / Cadmium	Meat and offal – maximum levels in place.
Low	Ovine	Dioxins/PCBs	Limits for meat and liver.
Low	Ovine	BaP and PAH	Smoked meat (although FSA are not aware of smoked lamb product being imported).

Poultry

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Poultry	Anti-Microbial Resistance (AMR)	Raw poultry productsViable counts of Salmonella on samples should be determined using standard procedures.Salmonella isolated from viable counts should be tested for antimicrobial sensitivity byperforming MICs against them for the following antibiotics, according to current EUprotocols for methodology: Ampicillin (A), Chloramphenicol (C), Cefotaxime (CTX),Cefpodoxime (CPD), Ciprofloxacin (Cp), Gentamicin (G), Amikacin (AMK), Nalidixic Acid (Nx),Neomycin (Ne) and Tetracycline (T).Multi-drug resistance will be determined as isolates resistant (using appropriate breakpoints) to 3 or more antibiotic of separate classes.Cooked poultry and other ready-to-eat poultry productsViable counts of <i>E. coli</i> on samples should be determined on MacConkey agar and MacConkey agar + 1 mg/L cefotaxime according to current EU protocols. However, viable counts should additionally be determined using a commercial ESBL agar. Isolates with an AmpC and or ESBL phenotype from MacConkey agar + 1 mg/L cefotaxime or the commercial ESBL agar should be verified as such if required using appropriate genetic (e.g. PCR or WGS) or phenotypic (e.g. appropriate MICs or sensitivities) methods.Please also report the results of all AMR tests (positive or negative) to:
High	Poultry	Carbapenemase, AmpC, ESBL	<i>E. coli</i> producing carbapenemase/AmpC/ESBL in raw poultry. AmpC/ESBL phenotype <i>E. coli</i> to be isolated on MacConkey agar + 1 mg/L cefotaxime and carbapenem resistant <i>E. coli</i> to be isolated on two commercial chromogenic carbapenem agars according to current EU protocols. Viable counts for <i>E. coli</i> to be determined on MacConkey agar and MacConkey agar + 1 mg/L cefotaxime according to current EU protocols. Please also report the results of all AMR tests (positive or negative) to: microriskassessment@food.gov.uk

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Poultry	Veterinary medicine residues: Coccidiostats & antimicrobials (Nicarbazin, Lasalocid, Diclazuril) Nitrofurans & Chloramphenicol	Raw poultry (chicken, duck, turkey, guinea fowl and goose). In the recent past also detected in fresh and salted chicken. Nicarbazin detected in cooked chicken. Cooked poultry (chicken, duck from Thailand and China), and salted/marinated chicken from Brazil and Thailand.
High	Poultry	Salmonella, E. coli, Listeria monocytogenes	Cooked poultry (chicken, duck from Brazil, Thailand and China), including cooked breaded frozen poultry, and other potentially ready-to-eat poultry products.
Medium	Poultry	Salmonella, E. coli, Listeria monocytogenes	Minced meat, meat products and meat preparations intended to be eaten cooked , including salted/marinated chicken from Brazil and Thailand (but not for <i>Listeria monocytogenes</i>).
Low	Poultry	Lead / Cadmium	Meat and offal – maximum levels in place.
Low	Poultry	Dioxins/PCBs	Chicken liver is very low risk.

Swine

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Swine	Veterinary medicine residues: Nitrofurans, chloramphenicol and other antimicrobials. Beta-agonists (particularly ractopamine)	Hog casings, from China in particular. The US in particular, but also other countries, use ractopamine in pork production.
High	Swine	Salmonella (screen for AMR where possible), E. coli (screen for AMR where possible), Listeria monocytogenes	Ready-to-eat minced meat, meat products.
Medium	Swine	Salmonella (screen for AMR where possible), E. coli (screen for AMR where possible), Listeria monocytogenes	Minced meat and meat preparations intended to be eaten cooked .
Low	Swine	Lead / Cadmium	Meat and offal – maximum levels in place.
Low	Swine	BaP and PAH	Smoked pork meat products (sausage, bacon), also including cooked smoked sausage products. Raw meats are not susceptible to BaP contamination.
Low	Swine	Dioxins/PCBs	Lower limits apply than for beef and lamb, so there is a higher risk of non-compliance than other meats, although the health risk is actually lower.

Bivalve molluscs, echinoderms, tunicates & gastropods

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Bivalves, echinoderms, tunicates & gastropods	Salmonella, E. coli	Live bivalve molluscs and live echinoderms, tunicates and gastropods.
High	Bivalves, echinoderms, tunicates & gastropods	Salmonella	Cooked molluscan shellfish.
Medium	Bivalves, echinoderms, tunicates & gastropods	Biotoxins – PSP, ASP, Lipophilic toxins including DSP	Live bivalve molluscs and live echinoderms, tunicates and gastropods. [With PSP (Paralytic Shellfish Poisoning) being potentially fatal, priority ranking could be increased to High for areas where PSP events are recurrent].
Medium	Bivalves, echinoderms, tunicates & gastropods	Biotoxins - new species	Different species being imported (NZ green lipped mussels, Canadian scallops, different clams' species, geoduck, Atlantic scallops). However, risk from toxins the UK is not familiar with likely to cause testing issues (methods for toxin testing probably not all developed yet) and new threats to public health.
Medium	Bivalves, echinoderms, tunicates & gastropods	Vibrio	Pathogenic vibrio such as Vibrio vulnificus and Vibrio parahaemolyticus may pose a risk, particularly in live bivalve shellfish.
Low	Bivalves, echinoderms, tunicates & gastropods	Norovirus & Hepatitis A	Norovirus and hepatitis A may pose a risk, in particularly in live bivalve shellfish such as oysters. Whilst the risk exists in imported shellfish, there are at present no agreed limits or legislation in place. As a result, there would be no requirement for action on products found to contain such a hazard.
Low	Bivalves, echinoderms, tunicates & gastropods	Heavy metals: lead, cadmium and mercury (including methylmercury), BaP and PAH, Dioxins/PCBs	Live bivalve molluscs and live echinoderms, tunicates and gastropods. Bivalve shellfish are prone to PAH contamination.

Fish products and crustaceans

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Fish products & crustaceans	Salmonella	Cooked crustaceans.
High	Fish products & crustaceans	Listeria monocytogenes, Clostridium botulinum	Smoked fish (salmon) intended to be eaten raw . <i>C. botulinum</i> in vacuum pack only.
High	Fish products & crustaceans	Veterinary medicine residues	 Crustaceans: test for chloramphenicol, sulphonamides, nitrofurans and antimicrobials. Farmed products, particularly from Vietnam and India, and to a lesser extent China: test for antimicrobials (including trimethoprim, macrolides) and dyes (e.g. malachite green and crystal violet and their metabolites).
High	Fish products & crustaceans	Cadmium	Checks should include molluscs, cephalopods and sardines. Crustaceans (white meat only) and muscle meat of fish would be low priority.
High	Fish products & crustaceans	Mercury (total mercury and methylmercury)	Mercury accumulates in all fish, particularly larger predatory oily fish. RASFF reports are common in imports from Asia / Indonesia, so priority should be considered for species from those areas.
High	Fish products & crustaceans	Histamine	In tuna , and other fishery products from fish species associated with a high amount of histidine.
Medium	Fish products & crustaceans	Lead	Checks should include cephalopods. Maximum levels exist for muscle meat in fish, crustaceans (white meat only).

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Medium	Fish products & crustaceans	Irradiation	In dried fish.
Low	Fish products & crustaceans	Nematodes	Parasitic infestation in wild-caught fresh fish only.
Low	Fish products & crustaceans	BaP and PAH	Dried/smoked fish and fishery products. Does not apply to fresh fish, crustaceans or cephalopods.
Low	Fish products & crustaceans	Dioxins/ PCBs	Oily fish only. Fish liver – limits set at a level that would indicate a moderate rate of non-compliance but rarely consumed in UK.

Eggs

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Medium	Eggs	Veterinary medicine residues	Test for antimicrobials and coccidiostats.
Medium	Eggs	Dioxins/ PCBs	Limits apply only to hen eggs and hen egg products. Free range/organic eggs in particular are known to accumulate dioxins.
Low	Eggs	Salmonella	Ready-to-eat foods containing raw egg, excluding products where the manufacturing process or the composition of the product will eliminate the <i>Salmonella</i> risk.
Low	Eggs	Salmonella	Egg products, excluding products where the manufacturing process or the composition of the product will eliminate the <i>Salmonella</i> risk.
Low	Eggs	Enterobacteriaceae	Egg products, at the end of the manufacturing process.

Milk and milk products

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Milk & milk products	Listeria monocytogenes	Cheeses made from raw milk, or milk that may have undergone a lower heat treatment than pasteurisation.
Medium	Milk & milk products	Salmonella, E. coli	 Cheeses, butter and cream made from raw milk or milk that has undergone a lower heat treatment than pasteurisation. Milk powder and whey powder. Ice cream containing milk ingredients, excluding products where the manufacturing process or the composition of the product will eliminate the salmonella risk. Dried infant formulae and dried dietary foods for special medical purposes intended for infants below six months of age. Dried follow-on formulae.
Low	Milk & milk products	Coagulase-positive staphylococci	 Cheeses made from raw milk. Cheeses made from milk that has undergone a lower heat treatment than pasteurisation. Ripened cheeses made from milk or whey that has undergone pasteurisation or a stronger heat treatment. Unripened soft cheeses (fresh cheeses) made from milk or whey that has undergone pasteurisation or a stronger heat treatment.
Low	Milk & milk products	Staphylococcal enterotoxins (to be carried out on samples with coagulase positive Staphylococci test results greater than 10 ⁵ cfu/g)	 Cheeses made from raw milk. Cheeses made from milk that has undergone a lower heat treatment than pasteurisation. Ripened cheeses made from milk or whey that has undergone pasteurisation or a stronger heat treatment. Unripened soft cheeses (fresh cheeses) made from milk or whey that has undergone pasteurisation or a stronger heat treatment.

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Low	Milk & milk products	Fungal moulds and yeasts	Some alerts in the last year.
Low	Milk & milk products	Enterobacter sakazakii	Dried infant formulae and dried dietary foods for special medical purposes intended for infants below six months of age.
row	Milk & milk products	Aflatoxin M1	Raw milk, heat treated milk and milk for the manufacture of milk-based products. Infant formulae and follow-on formulae, including infant milk and follow-on milk.
Low	Milk & milk products	Lead / Cadmium	Milk and milk products, including infant formula and follow on formula.
row	Milk & milk products	Glycidyl esters and 3-MCPD and its esters	Infant formula and follow on formula.

Equine

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Medium	Equine	Veterinary medicines residues	Testing for Phenylbutazone (Bute), targeted to equines from Mexico and South America in general.
Medium	Equine	Salmonella	Ready-to-eat minced meat, meat products and meat preparations intended to be eaten raw.
Low	Equine	Salmonella	Minced meat and meat preparations intended to be eaten cooked .
Low	Equine	Lead / Cadmium	Include offal (kidney and liver).

Animal fats and marine oils

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Low	Animal fats and marine oils	Dioxins/ PCBs	Animal fats and marine oils are included in Regulation (EC) 1881/2006 as amended. Limits are as for the source animal except for mixed animal fat, which may be at higher risk of non-compliance because the limits are lower than those for beef/lamb/poultry fat.
Low	Animal fats and marine oils	3-MCPD esters and Glycidyl esters	Marine oils.

(Processed) animal protein products

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Low	(Processed) Animal & marine protein products	Salmonella	 Gelatine and collagen (Microbiological criterion 1.10 in Annex I of Regulation (EC) 2073/2005 specifically gelatine). Supplements glucosamine/chondroitin if there are suspicions.
Low	(Processed) Animal & marine protein products	Heavy metals: lead, cadmium, mercury, chromium, arsenic, copper, zinc, hydrogen peroxide	Gelatine (and collagen) if there are suspicions.

Honey

Priority Ranking	Product Category	Hazard	Specific sampling guidance
Medium	Honey	Veterinary medicine residues: Antimicrobials (including Chloramphenicol, Nitrofurans)	 The Animal and Plant Health Agency (APHA), an executive agency of the Department for Environment, Food and Rural Affairs (Defra), is responsible for the animal health aspects of imports of honey - See more at: https://www.food.gov.uk/business-guidance/importing-products-of-animal-origin A few samples found in 2018 with Amitraz residues. Honey from China in particular. [Sampling should be in in line with EC Directive 2002/63. Analysis should be in line with SANTE/11813/2017 or its replacement. Results should be checked for compliance with pesticide MRLs as set under Regulation (EC) 396/2005 as amended. Care should be taken when reporting these results to make clear the legislation or other basis for sampling].

Pet food

Priority Ranking	Product Category	Hazard	Specific sampling guidance
High	Pet food	Anti-Microbial Resistance (AMR)	Raw pet food isolates, to be tested according to current EU protocols.
High	Pet food	Salmonella, Enterobacteriaceae	Raw pet food.
Medium	Pet food	Veterinary medicine residues	Chicken or duck fillet.