

Results of Monitoring and Guidance
Based on the Imported Foods Monitoring and
Guidance Plan for FY 2024

Interim Report

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Public Health Bureau,
Ministry of Health, Labour and Welfare

Result of Monitoring and Guidance Based on the Imported Foods Monitoring and Guidance Plan for FY 2024 (Interim Report)

1. Introduction

In order to ensure the safety of foods, etc., imported into Japan (hereinafter, “imported foods”), the government established the Imported Foods Monitoring and Guidance Plan for 2024 (hereinafter, “the Plan”) as per the regulations of Article 23, paragraph 1 of the Food Sanitation Act (Act No. 233, 1947; hereinafter, “the Act”), and monitoring and guidance for imported foods is being conducted based upon the Plan.

(The Plan is formulated based on the Guidelines for Monitoring and Guidance for Food Sanitation (Ministry of Health, Labour and Welfare Notification No. 301 of 2003) after conducting collection of public comments and risk communication. The plan is published in the Official Gazette as an official report according to the regulations of Article 23, paragraph 3 of the Act.)

This document publishes an outline of the implementation status of the monitoring and guidance for imported foods, conducted in accordance with the Plan, for the period from April to September 2024.

Reference: “Imported Foods Monitoring: To Ensure the Safety of Imported Foods”

https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryou/shokuhin/yunyu_kanshi/index.html (Japanese)

https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryou/shokuhin/yunyu_kanshi/index_00017.html (English)



2. Overview of the Imported Foods Monitoring and Guidance Plan for FY 2024

1. What is the Imported Foods Monitoring and Guidance Plan?

This is the plan for the implementation of monitoring and guidance for the import of foods by the Japanese government as stipulated by Article 23, paragraph 1 of the Act.

Purpose: To further ensure the safety of imported foods by the national government by promoting intensive, effective, and efficient monitoring for imported foods and guidance to importers.

2. Principles of Monitoring and Guidance for Imported Foods

The basic concept is implementation of measures to ensure food safety at each stage, from the production in the exporting countries to domestic distribution after import, in light of Article 4 (“food safety shall be ensured by taking the necessary measures appropriately at each stage of the food supply process both in and outside of Japan”) of the Food Safety Basic Act (Act No. 48 of 2003).

3. Priority Items for Monitoring and Guidance

- Check for the compliance to the Act at the time of import
- Implementation of monitoring inspections*¹ (FY 2024 Plan: approximately 100,000 cases)
- Inspection orders*²
- Regulations for comprehensive import bans*³
- Emergency measures based on oversea information

*1: Systematic inspection based on a statistical approach considering the import record and violation rate for each type of food.

*2: Inspection for products with a high probability of violation where inspection is ordered for the importer, each time of the import. Import and distribution is not permitted unless the results comply with the Act.

*3: Measures whereby the Minister of Health, Labour and Welfare prohibits sale or import of specific foods without requiring an inspection, in cases where it is deemed necessary to prevent harm.

4. Promotion of Hygiene Control Measures in Exporting Countries

- Disseminate food hygiene regulations in Japan to the authorities and exporters in exporting countries
- Request for the investigation of a cause of violation of the Act and the

establishment of corrective and preventive measures through bilateral consultations, as well as the promotion of hygiene control at production stages, building up a monitoring system and pre-export inspections, etc

- Systematic collection of information on hygiene control measures for foods exported to Japan
- Technical cooperation that helps to build up a food hygiene monitoring system in exporting countries

| | |---| | 5. Guidance to Importers on Voluntary Hygiene Control | |---|

- Pre-import guidance (known as import consultation)
- Guidance on instruction-based inspections at import consultation, initial import and continued import
- Guidance on preparation and storage of records on the import and distribution of imported foods
- Raising awareness of food safety amongst importers

3. Results of Monitoring and Guidance Based on the Imported Foods Monitoring and Guidance Plan for FY 2024 (Interim Report: Tentative)

Figures in brackets are for the same period in the previous year.

The number of import notifications made from April through September 2024 was 1,248,232 cases 【1,197,058 cases】 , and the weight of notified items was 11,696 thousand tons 【11,098 thousand tons】 .

Inspections were carried out on 104,714 cases 【102,256 cases】 (monitoring inspections on 27,075 cases 【29,145 cases】 , inspection orders on 34,338 cases 【30,942 cases】 , and instruction-based inspections on 43,963 cases 【42,005 cases】 , deducting duplicates). Of these, 374 cases 【379 cases】 were found to be in violation of the Act, and steps were taken for reshipment or disposal, etc. (Table 1).

Regarding violations categorized by provision, violations of Article 13 of the Act (standards and criteria for food (e.g., microbiological criteria, agricultural chemical residues, and veterinary drug residues) and standards for use for food additives) were the most common with 261 cases, followed by 97 cases of violation of Article 6 (e.g., contamination with harmful or toxic substances such as aflatoxin, cyanide), 25 cases of violation of Article 12 (use of undesignated additives), 13 cases of violation of Article 18 (standards for apparatus, containers and packaging), 1 case of violation of Article 10 (non-attachment of health certificate for meat), and zero cases of violation of Article 68 (mutatis mutandis application for toys for infants) (Table 2).

Monitoring inspections were conducted for 27,075 cases (running total of 59,146 cases compared to the planned cumulative total of 100,224 (implementation rate: approx. 59%)), and of which, 68 cases (running total of 70 cases) were confirmed to be in violation of the Act, and steps were taken for their recalls, etc. (Table 3). For the same type of imported foods that were found to be in violation of the Act by monitoring inspections, the inspection rate was increased as necessary, to determine the probability of violations (Table 4). Additionally, for imported foods that are considered to have a high probability of violation to the Act, inspections were strengthened by making them subject to inspection orders (Table 5).

As of September 30, 2024, 15 items from all exporting countries, and 108 items from

43 countries and regions were subject to inspection orders. The inspections have been carried out for 34,338 cases (running total of 45,389 cases), 93 cases of which (running total of 93 cases) were found to be in violation of the Act, and steps were taken for reshipment or disposal, etc. (Table 6).

As emergency measures based on overseas information, measures were taken to reship crocodile meat from Australia due to pieces of metal and measures were taken to reship natural cheese imported from France due to potential contamination with *Listeria monocytogenes* (Table 7).

Table 1 - Notifications, Inspections, and Violations (Apr-Sep 2024: Tentative)

Notifications ^{*1} (cases)	Imported Weight ^{*1} (thousand tonnes)	Inspections ^{*2} (cases)	Proportion ^{*3} (%)	Violations (cases)	Proportion ^{*3} (%)
1,248,232	11,696	104,714 (34,338 ^{*4})	8.4	374	0.03
(FY2023)					
1,197,058	11,098	102,256	8.5	379	0.03

*1 Cargoes of planned import system (excluding the time of first importation) are not included.

*2 Number of inspections by authorities, registered inspection organizations and foreign official laboratories, deducting duplications.

*3 Proportion compared to notifications.

*4 Number of inspection orders.

Table 2 - Violations by Legal Provision (Apr-Sep 2024: Tentative)

Provision violated	Violations (cases)	Proportion	Major Violation Details
Article 6 (Foods and additives prohibited to distribute)	97 (Gross) 97 (Actual)	24.4%	Detection of aflatoxin from almonds, dried figs, sesame seeds, pistachio nuts, peanuts, detection of cyanide from apricot kernels, detection of methanol from spirits, decay and spoilage due to accidents during the transport of rice, wheat, peanuts, etc.
Article 10 (Prohibition for distribution, etc. of meat from diseased animal)	1 (Gross) 1 (Actual)	0.3%	Non-attachment of health certificate
Article 12 (Limitation on distribution, etc. of additives, etc.)	25 (Gross) 24 (Actual)	6.3%	Use of undesigned additives (TBHQ, Azorubine, Orange II, Cyclamic Acid, Patent Blue V, Ferrous Fumarate, Ammonium Molybdate, Iodized Salt, Sodium Aluminum Sulfate).
Article 13 (Standards and criteria for foods and additives)	261 (Gross) 244 (Actual)	65.7%	Violations of standards for vegetables and processed products (agricultural chemicals residue exceeding the standards, E.coli test positive, etc.), violations of standards for livestock foods, aquatic foods, and their processed products (exceeding veterinary drug residue limits, etc.), violations of standards for other processed foods (coliform bacteria test positive, etc.), violations of standards for use of additives (Sorbic acid, Sulfur dioxide, Polysorbate, etc.), violations of specifications for additives, detection of genetically modified foods that have not undergone safety assessment, etc.
Article 18 (Standards and criteria for apparatus, containers and packaging)	13 (Gross) 10 (Actual)	3.3%	Violations of material standards
Article 68 (Mutatis mutandis application for toys for infants)	0 (Gross) 0 (Actual)	0.0%	Violations of standards for toys for infants
Total	(Gross) ^{*1} (Actual) ^{*2}	397 374	

*1 Number of inspection cases by inspected substance

*2 Number of cases by notification (of one case violated both Article 6 and 12, one case violated both Article 12 and 13)

Table 3 - Implementation of Monitoring Inspections (Apr-Sep 2024: Tentative)

Food Groups	Inspected Substances ^{*1}	Planned Number in FY	Actual Number	Violations
Livestock Foods Beef, pork, chicken, horse meat, other poultry meat, etc.	Antibacterial substances, etc.	2,148	1,172	0
	Residual agricultural chemicals	2,148	1,075	0
	Additives	238	245	0
	Pathogenic microbes	717	351	0
	Standards, etc.	685	355	0
	Radiation irradiation	29	22	0
	Removal of SRMs	-	412	1
Processed Livestock Foods Natural cheese, meat products, ice cream, frozen food (meat), etc.	Antibacterial substances, etc.	1,756	1,088	0
	Residual agricultural chemicals	1,727	1,140	0
	Additives	1,127	916	0
	Pathogenic microbes	3,703	2,143	0
	Standards, etc.	1,877	1,324	1
	Mycotoxins	-	4	0
	Radiation irradiation	-	2	0
Fishery Foods Bivalves, fish, crustacea (shrimps, crabs, etc.), etc.	Antibacterial substances, etc.	2,266	1,230	2
	Residual agricultural chemicals	1,368	1,051	0
	Additives	297	148	0
	Pathogenic microbes	1,194	963	0
	Standards, etc.	414	239	0
	Genetically modified food	59	41	0
	Radiation irradiation	64	38	0
Processed Aquatic Foods Processed fish products (fillet, dried or minced fish, etc.), frozen food (marine animals, fish), processed fish egg products, etc.	Antibacterial substances, etc.	4,053	2,502	0
	Residual agricultural chemicals	3,243	2,418	0
	Additives	1,624	1,478	1
	Pathogenic microbes	5,076	2,996	0
	Standards, etc.	4,386	2,486	5
	Mycotoxins	-	5	0
	Radiation irradiation	-	22	0
Agricultural Foods Vegetables, fruit, wheat, corn, beans, peanuts, nuts, seeds, etc.	Antibacterial substances, etc.	2,379	2,023	1
	Residual agricultural chemicals	10,117	5,542	28
	Additives	983	589	0
	Pathogenic microbes	2,032	1,694	0
	Standards, etc.	205	219	1
	Mycotoxins	2,087	1,266	6
	Genetically modified food	383	214	0
	Radiation irradiation	119	109	0
Processed Agricultural Foods Frozen foods (processed vegetable), processed vegetable products, processed fruit products, spices, instant noodles etc.	Antibacterial substances, etc.	299	398	0
	Residual agricultural chemicals	6,561	4,737	6
	Additives	4,252	3,510	0
	Pathogenic microbes	2,689	1,767	0
	Standards, etc.	2,888	2,254	9
	Mycotoxins	3,404	1,961	1
	Genetically modified food	510	280	0
	Radiation irradiation	458	299	0
Other Foods Health foods, soups, seasoning, confectionary, cooking oil and fat, frozen food, etc.	Residual agricultural chemicals	955	807	0
	Additives	3,224	2,031	4
	Standards, etc.	897	375	0
	Mycotoxins	1,794	882	1
	Genetically modified food	-	6	0
	Radiation irradiation	-	7	0
Beverages Mineral waters, soft drinks, alcohol drinks, etc.	Residual agricultural chemicals	238	191	0
	Additives	1,045	672	1
	Standards, etc.	926	400	1
	Mycotoxins	118	80	0
Additives Apparatus, Containers and Packaging Toys for infants	Standards, etc.	1,462	967	1
Grand total (gross)		100,224 ^{*2}	59,146 ^{*3} Implementation rate of 59%	70 ^{*3}

* Numbers in the table are gross number

*1 Examples of inspected substances

- Antibacterial substances, etc. : Antibiotics, synthetic antimicrobials, hormon agents, etc.
- Residual agricultural chemicals : Organophosphorus, organochlorine, carbamates, pyrethroid agricultural chemical, etc.
- Additives : Preservatives, coloring agents, sweeteners, antioxidants, fungicides, etc.
- Pathogenic microbes : Enterohemorrhagic *Escherichia coli* (*E. coli*) O26, O103, O104, O111, O121, O145 and O157, *Listeria monocytogenes*, *Vibrio parahaemolyticus*, etc.
- Standards, etc. : Items stipulated in the standards (bacterial count, coliform bacteria, radioactive substances, etc. (excluding pathogenic microbes)), shellfish poisons (diarrhetic shellfish poisons and paralytic shellfish poisons) , etc.
- Mycotoxins : Aflatoxin, deoxynivalenol, patulin, etc.
- Genetically modified foods : Genetically modified food etc. that have not been assessed for safety.
- Radiation irradiation : Whether irradiation is applied

*2 Gross number of cases with the 10,000 cases planned for enhanced inspections added.

*3 Number of notification cases is 27,075 cases. Number of violations by notification is 68.

Table 4 - Items Subject to Enhanced Monitoring Inspection^{*1} (Apr-Sep 2024)

Country/Region	Subject items	Inspected Substances
People's Republic of China	Red pepper	2,4-D
		Propiconazole
	Asparagus	Isoprocarb
		Haloxypop
		Fenpropathrin
		Profenofos
		Prometryn
	Green soybeans	Difenoconazole
	Wood ears	Imidacloprid
		Chlorpyrifos
		Chlorfenapyr
	Perilla	Acetamiprid
		Atrazine
	Buckwheat	Aflatoxin
	Carrot	Triadimenol
		Flusilazole
	Garlic sprouts	Procymidone
	Welsh onion	Atrazine
		Thiamethoxam
	Bayberry	4-CPA
		Difenoconazole
	Lychees	Isocarbophos
Viet Nam	Red pepper	Acephate
		Etoxazole
	<i>Capsicum frutescens</i>	Isocarbophos
		Etoxazole
		Propiconazole
	<i>Limnophila aromatica</i>	Isoprothiolane
		Iprobenfos
		Tricyclazole
		Hexaconazole
		Lufenuron
	Centella	Tolfenpyrad
	Passion fruit	Cypermethrin
	Banana	Imidacloprid
		Pyraclostrobin
		Permethrin
	Melon	Chlorfenapyr
	Lime	Profenofos
Thailand	Acacia	Indoxacarb
		Diflubenzuron

Country/Region	Subject items	Inspected Substances
Thailand	Leech lime leaf	Triazophos
	Pandanus palm leaf	Cypermethrin
	Mango	Difenoconazole
	Immature peas	Diniconazol
		Propiconazole
	Mung bean	Thiamethoxam
India	Curry Leaves	Phenthoate
	Cassia tora	Aflatoxin
	Small peanuts	Chlorpyrifos
	Corn	Aflatoxin
	Cultured shrimp	Malachite green
Republic of Korea	Red pepper	Propiconazole
	Perilla	Paclobutrazol
	Cultured olive flounder	Benzylpenicillin
	Apple juice and Apple juice concentrate	Patulin
Australia	Truffle	Aldrin and Dieldrin
		Heptachlor
	Apple juice and Apple juice concentrate	Patulin
Argentina	Kidney beans	2,4-D
		Aflatoxin
Italy	Endive	Etofenprox
	Porcini	Permethrin
Cambodia	Banana	Dinotefuran
		Pyraclostrobin
Chile	Blueberry	Indoxacarb
		Fludioxonil
U.S.A.	Chicken	Lasalocid
	Chickpea	Piperonyl butoxide
Honduras	Melon	Azoxystrobin
		Difenoconazole
Iran	Pistachio nuts	Chlorpyrifos
Indonesia	Coffee beans	Isoprocarb
Netherlands	Strawberry	Bupirimate
Ghana	Cacao beans	Deltamethrin and tralomethrin
Colombia	Coffee beans	2,4-D
Sri Lanka	Boiled octopus	<i>Vibrio parahaemolyticus</i> ^{*2}
Nigeria	Sesame seeds	Imidacloprid
Nepal	Buckwheat	Aflatoxin
Bangladesh	Non-glutinous rice	Chlorpyrifos
Philippines	Banana	Oxytetracycline
France	Apple juice and Apple juice concentrate	Patulin
Peru	Immature peas	Trifloxystrobin

Country/Region	Subject items	Inspected Substances
South Africa	Apple juice and Apple juice concentrate	Patulin
Myanmar	Red pepper	Triazophos
Mexico	Avocado	Boscalid

*1 Include the items which were rescinded from inspection orders. Exclude the items which were transferred to inspection orders.

*2 Item which 30% of import notifications were inspected as a measure to enhance inspections during the summer period, (Jun-Oct 2024).

Table 5 - Items Transferred to Inspection Order (Apr-Sep 2024)

Country/Region	Subject items	Inspected Substances
India	Okra	Chlorpyrifos
		Tebuconazole
	Curry Leaves	Ethion
		Profenofos
People's Republic of China	Rape flower	Tebuconazole
	Foods containing lotus seed (manufacturer limited)	Aflatoxin
	Processed food (manufacturer limited)	Cyclamic acid
Thailand	Acacia	Triazophos
	Leech lime leaf	Profenofos
Nepal	Foods containing red pepper,turmeric, nutmeg or fenugreek (manufacturer limited)	Aflatoxin
	Foods containing red pepper,nutmeg, chickpea or peanuts (manufacturer limited)	Aflatoxin
Iran	Foods containing dried fig or dried apple (manufacturer limited)	Aflatoxin
Chile	Blueberry	Tebuconazole
Nigeria	Sesame seeds	Aflatoxin
Niger	Sesame seeds	Aflatoxin
Burkina Faso	Sesame seeds	Aflatoxin
Viet Nam	Processed food (manufacturer limited)	Cyclamic acid

Table 6 - Major Items Subject to Inspection Orders and Inspection Results (Apr-Sep 2024: Tentative)

Country/Region	Major subject foods	Major Inspected Substances	Inspections (cases)	Violations (cases)
All exporting countries (15 items)	Dried figs, Chili peppers, Nuts, Mixed spices, Peanuts	Aflatoxin	5,857	46
	Manioc, Beans containing cyanide	Cyanide	242	1
	Salted salmon roe	Nitrite	41	0
People's Republic of China (22 items)	Threelobed arrowhead (<i>Sagittaria trifolia</i>), Buckwheat, Onion, Carrot, Broccoli, Spinach, Rape flower	Agricultural chemicals (Endrin, Chlorpyrifos, Dimethomorph, Thiamethoxam, Tebuconazole, Paclobutrazol, Haloxypop, Procymidone, Mepiquat-chloride)	17,909	21
	Bivalves	Diarrhetic shellfish poison, Paralytic shellfish poison	3,745	0
	Buckwheat, Sunflower seeds	Aflatoxin	208	1
	Soft-shelled turtle, Cultured eel	Veterinary drug residues etc. (Enrofloxacin, Oxolinic acid, Sulfadimidine)	490	0
	Processed foods	Cyclamic acid	578	0
Viet Nam (15 items)	Shrimp, Frog, Filefish, Cultured shrimp	Veterinary drug residues etc. (Enrofloxacin, Chloramphenicol, Doxycycline, Flazolidone)	9,191	4
	Red peppers, Calamansi, <i>Capsicum frutescens</i> , Durian, Carrot, Lychees	Agricultural chemicals (Tricyclazole, Procymidone, Propiconazole, Profenofos, Hexaconazole)	274	1
	Processed foods	Cyclamic acid	18	0
India (12 items)	Cultured shrimp	Veterinary drug residues etc. (Furazolidone)	903	1
	Okra, Cashew nut, Black tea, Chickpea	Agricultural chemicals (Chlorpyrifos, Tebuconazole, Hexaconazole)	241	2
	Pearl millet (<i>Pennisetum glaucum</i>), Buckwheat	Aflatoxin	7	0
Thailand (12 items)	Acacia, Red shallot, Okra, Green asparagus, Durian, Banana, Mango, Mangosteen	Agricultural chemicals (EPN, Imazalil, Chlorpyrifos, Cypermethrin, Triazophos, Haloxypop, Procymidone, Propiconazole)	567	0
Republic of Korea (11 items)	Bivalves	Diarrhetic shellfish poison, Paralytic shellfish poison	1,672	0
	Green pepper, Oriental melon	Agricultural chemicals (Chlorfenapyr, Fluquinconazole, Hexaconazole)	118	1
	Cultured olive flounder	Veterinary drug residues etc. (Enrofloxacin, Oxytetracycline)	4	0
Italy (10 items)	Natural cheese	<i>Listeria monocytogenes</i>	11	0
	Corn, Pistachio nuts	Aflatoxin	148	0
U.S.A. (10 items)	Dried dates, Corn, Pistachio nuts	Aflatoxin	2,014	2
Other (36 countries and regions; total of 61 items)			1,151	13
Total			(Gross) ^{*1} 45,389	93
			(Actual) ^{*2} 34,338	93

*1 Number of cases by inspected substance

*2 Number of cases by notification

Table 7 - Major Enhanced Monitoring Based on Overseas Information (Apr-Sep 2024: Tentative)

Month of enhancement	Country/Region	Food items and Risks	Background and Measures Taken
June	Australia	Crocodile meat (Possible contamination with pieces of metal)	Based on the information that pieces of metal was detected from the crocodile meat and that it was voluntarily recalled in Australia, measures such as reshipment were taken when an import notification of the recalled product was made.
August	France	Natural cheese (Possible contamination with <i>Listeria monocytogenes</i>)	Based on the information that <i>Listeria monocytogenes</i> was detected from the natural cheese and that it was voluntarily recalled in France, measures such as reshipment were taken when an import notification of the recalled product was made.

(Reference) Description of Key Terms

Term	Description
2,4-D	Agricultural chemical (phenoxy acid herbicide)
4-CPA	Agricultural chemical (phenoxy acid plant growth regulator)
Acephate	Agricultural chemical (organophosphorus insecticide)
Aflatoxin	Mycotoxin produced by fungi <i>Aspergillus flavus</i> and <i>Aspergillus parasiticus</i> , which belong to fungi imperfecti. Total aflatoxin is measured amount of B1, B2, G1 and G2
Aldrin and Dieldrin	Agricultural chemical (organochlorine insecticide)
Atrazine	Agricultural chemical (triazine herbicide)
Azorbine	Undesignated additive (coloring)
Azoxystrobin	Agricultural chemical (strobilurin fungicide)
Benzylpenicillin	Veterinary drug (β -Lactam antibacterial agent)
Boscalid	Agricultural chemical (amide fungicide)
Bupirimate	Agricultural chemical (fungicide)
Chloramphenicol	Veterinary drug (synthetic antibacterial agent)
Chlorfenapyr	Agricultural chemical (pyrrole insecticide)
Chlorpyrifos	Agricultural chemical (organophosphorus insecticide)
Cyanide	Harmful or poisonous substance (cyanide compounds (e.g. cyanogenic glycosides)) found in plants such as some varieties of beans
Cyclamic acid	Undesignated additive (sweetener)
Cypermethrin	Agricultural chemical (pyrethroid insecticide)
Deltamethrin and Tralomethrin	Agricultural chemical (pyrethroid insecticide)
Diarrhetic shellfish poison	Shellfish poison (mainly refers to toxins produced by harmful planktons accumulated in bivalves)
Difenoconazole	Agricultural chemical (triazole fungicide)
Diffubenzuron	Agricultural chemical (benzoylphenyl urea insecticide)
Dimethomorph	Agricultural chemical (cinnamic acid derivative fungicide)
Diniconazol	Agricultural chemical (triazole fungicide)
Dinotefuran	Agricultural chemical (neonicotinoid insecticide)
Doxycycline	Veterinary drug (Tetracycline synthetic antimicrobial agents)
Endrin	Agricultural chemical (organochlorine insecticide)
Enrofloxacin	Veterinary drug (new quinolone synthetic antibacterial agent)
Enterohemorrhagic <i>Escherichia coli</i> (<i>E.coli</i>)	Pathogenic microorganism (a bacterium that exists in the intestines of animals. It contaminates foods and drinking water via faeces and urine, and causes early cold like symptoms followed by severe abdominal pain and bloody diarrhea with a large amount of bright red blood).
EPN	Agricultural chemical (organophosphorus insecticide)
Ethion	Agricultural chemical (organophosphorus insecticide)
Etofenprox	Agricultural chemical (pyrethroid insecticide)
Etoazole	Agricultural chemical (insecticides containing oxazoline ring)
Fenpropathrin	Agricultural chemical (pyrethroid insecticide)
Fludioxonil	Agricultural chemical (phenylpyrrole fungicide)
Fluquinconazole	Agricultural chemical (triazole fungicide)
Furazolidone	Veterinary drug (nitrofurantoin synthetic antibacterial agent); generates AOZ when metabolized
Haloxypop	Agricultural chemical (aryloxyphenoxy-propionate herbicide)
Heptachlor	Agricultural chemical (organochlorine insecticide)
Hexaconazole	Agricultural chemical (triazole fungicide)
Imazalil	Agricultural chemical (insecticide, fungicide)
Imidacloprid	Agricultural chemical (neonicotinoid insecticide)
Indoxacarb	Agricultural chemical (oxadiazine insecticide)
Iprobenfos	Agricultural chemical (organophosphorus fungicide)
Isocarbophos	Agricultural chemical (organophosphorus insecticide)
Isoprocarb	Agricultural chemical (carbamate insecticide)
Isoprothiolane	Agricultural chemical (dithiolane fungicide)
Lasalocid	Veterinary drug (polyether antibacterial agent)
<i>Listeria monocytogenes</i>	Pathogenic microorganism (a bacterium that exists widely in the natural environment. It commonly contaminates dairy products and processed meat products, and causes influenza-like symptoms including malaise and fever)
Lufenuron	Agricultural chemical (benzoylphenyl urea insecticide)
Mepiquat-chloride	Pesticides (Hetero plant growth regulators)

Term	Description
Nitrite	Additive (color fixative agent)
Oxolinic acid	Veterinary drug (quinolone synthetic antibacterial agent)
Oxytetracycline	Veterinary drug (tetracycline antibacterial agent)
Paclobutrazol	Agricultural chemical (triazole plant growth regulator)
Paralytic shellfish poison	Shellfish poison (mainly refers to toxins produced by harmful planktons accumulated in bivalves)
Patulin	Mycotoxin (produced by the fungi such as <i>Penicillium</i> spp. and <i>Aspergillus</i> spp.)
Permethrin	Agricultural chemical (pyrethroid insecticide)
Phenthoate	Agricultural chemical (organophosphorus insecticide)
Piperonyl butoxide	Agricultural chemical (insecticide)
Procymidone	Agricultural chemical (dicarboximide fungicide)
Profenofos	Agricultural chemical (organophosphorus insecticide)
Prometryn	Agricultural chemical (triazine herbicide)
Propiconazole	Agricultural chemical (triazole fungicide)
Pyraclostrobin	Agricultural chemical (strobilurin fungicide)
<i>Salmonella</i> spp.	Pathogenic microorganism (a bacterium that exists widely in nature. It commonly contaminates poultry eggs and meat, and causes abdominal pain, diarrhea, and fever)
Sorbic acid	Additive (preservatives)
Sulfadimidine	Veterinary drug (synthetic antibacterial agent)
Sulfur dioxide	Additives (antioxidants, bleaching agents, preservatives)
TBHQ (tert-butylhydroquinone)	Undesignated additive (antioxidant)
Tebuconazole	Agricultural chemical (triazole fungicide)
Thiamethoxam	Agricultural chemical (neonicotinoid insecticide)
Tolfenpyrad	Agricultural chemical (pyrazole ring group insecticide)
Triadimenol	Agricultural chemical (fungicide)
Triazophos	Agricultural chemical (organophosphorus insecticide)
Tricyclazole	Agricultural chemical (benzothiazole herbicide)
Trifloxystrobin	Agricultural chemical (strobilurin fungicide)
<i>Vibrio parahaemolyticus</i>	Pathogenic microorganism (a bacterium living in seawater (estuaries, coastal areas, etc.) that commonly contaminates fish and shellfish, and causes abdominal pain, watery diarrhea, fever and vomiting.)