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Inspection Results of Imported Foods Monitoring and Guidance Plan for FY 2011

Interim Report

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Department of Food Safety

Pharmaceutical and Food Safety Bureau
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1. Introduction

In order to monitor and provide instructions to ensure the safety of foods, etc., imported into Japan (hereafter referred to as “imported foods, etc.”), the government established the imported food monitoring and instruction program in 2011 (hereinafter, “the program”). The program is based on the guidelines for monitoring and providing instructions in food sanitation (Ministry of Health, Labour and Welfare Notification No. 301, 2003) as per the regulations of Article 23, Paragraph 1 of the Food Sanitation Act (Act No. 233, 1947; hereinafter, “the Act”); public comments were collected and risk communication was conducted. The program was published in the Official Gazette as an official report according to the regulations of Paragraph 3 of the same article, and the monitoring and instruction for imported foods, etc., is being conducted based upon the Program.

This document presents an outline of the implementation status of the monitoring and instruction for imported foods, etc., conducted in accordance with the program, for the period April to September 2011.

Reference: Website on “Safety of Imported Food” http://www.mhlw.go.jp/topics/yunyu/tp0130-1.html

2. Overview of the Imported Foods Monitoring and Guidance Plan for FY 2011

(1) What is the Imported Foods Monitoring and Guidance Plan?

The Imported Foods Monitoring and Guidance Plan is a plan for the implementation of monitoring and guidance conducted by the national government with respect to imported foods (Article 23, paragraph 1 of the Act).

[Objective] To ensure greater safety of imported foods by promoting the national government to conduct inspections at the time of importation and to conduct monitoring of and guidance for importers in an intensive, effective and efficient manner.

(2) Principles for Monitoring and Guidance on Imported Foods

Under the Article 4 of the Food Safety Basic Act (Act No.48 of 2003) (that is, food safety shall be ensured by taking appropriate measures at each stage of the domestic and overseas food supply process), the Plan is prepared in order that three stages of sanitation measures are taken, namely, in the exporting country, at the time of importation, and at the time of domestic distribution.

(3) Priority Items for Monitoring and Guidance

○ Confirmation of whether violations of the Act exist at the time of import declaration
○ Monitoring*1 (Plan for 2011: 86,000 items across 164 food groups)
○ Inspection orders*2 (as of September 30, 2011: 17 items from all exporting countries and 126 items from 31 countries and 1 region)
○ Regulations for comprehensive import bans*3
○ Emergency responses based on overseas information, etc.

(4) Promotion of Sanitation Measures in Exporting Countries

○ Requests to the governments of exporting countries for the establishment of sanitation control measures
○ Strengthening of control for agricultural chemicals, etc. and monitoring systems, and the promotion of pre-export inspections, through on-site inspections and bilateral talks

(5) Guidance for Importers on Voluntary Sanitation Control

○ Pre-import guidance (so-called “import consulting”)
○ Guidance for voluntary inspections at initial importation and on a regular basis
○ Instructions on the preparing and keeping of records
○ Dissemination of knowledge on food sanitation to importers, etc.

*1: Systematic inspections based on statistical concepts that take into account the volume of imports and violation rates, etc., for each food type.

*2: With regard to items having a high probability of being in violation of the Act, inspections are ordered to the importer by the Minister of Health, Labour and Welfare at each importation. Items are not permitted to import or distribute unless the results of the inspection comply with the regulations.

*3: Regulations by which the Minister of Health, Labour and Welfare can prevent the sale or import of specified foods, without the need for inspections, in cases where it is deemed necessary from the perspective of preventing harm to public health.

3. Inspection Results of Imported Foods Monitoring and Guidance Plan for FY 2011 (Interim Report: Tentative)

Looking at the declarations, inspections and violations made from April through September of 2011 (Table 1), there were 1,039,214 [1,011,512] declarations, and the weight of declared items was 13,175,000 [12,013,000] tons.

Inspections were carried out on 119,075 items (there were inspection orders on 52,811 items, monitoring on 28,367 items, and voluntary inspections on 37,897 items) [128,344 items (inspection orders on 62,498 items, monitoring on 28,103 items, and voluntary inspections on 37,743 items)]. Of these, 619 cases [736 cases] were found to be in violation of the Act, and steps were taken for their re-shipment, disposal, etc.

Records of violations categorized by Article (Table 2) show that violations of Article 11 of the Act, which is related to microbiological criteria for food, standards on residual agricultural chemicals and standards for the use of additives, were most common in 386 instances, followed by violations of Article 6, which is related to contamination with hazardous or toxic substances such as aflatoxin, in 165 instances, violations of Article 18, which is related to standards for apparatus or containers and packaging, in 39 instances, violations of Article 10, which is related to restrictions on the sale of additives, in 33 instances, violations of Article 18 (applied mutatis mutandis to Article 62) of the Act, which is related to standards for toys, in 11 instances, and violations of Article 9, which is related to non-attachment of sanitary certificates of meat or meat products, in 3 instances.

Records of monitoring in FY 2011 (Table 3) show that, out of a total of 86,117 planned inspections, 51,344 were actually conducted (That's an implementation rate of about 60%). Of these, a total of 100 constituted violations of the Food Sanitation Act, resulting in recalls and enhanced monitoring to identify possible future violations (Table 4). Additionally, as a result of enhanced monitoring, the monitoring system has been strengthened for imported foods, etc. which are considered to have a high probability of violating the Food Sanitation Act, by making them subject to inspection orders and requiring importers to undergo inspections at the time of import (Table 5).
As of September 30, 2011, inspection orders had been applied to 17 items from all exporting countries and 126 items from 31 countries and 1 region. The record of inspection orders (Table 6) shows that a total of 71,499 inspection orders were conducted and, of these, steps were taken for their re-shipment or disposal, etc. based on 119 violations of the Act.

Based on information from overseas on such topics as food-poisoning occurrences and recalls of law-violating food products, monitoring inspections and voluntary inspections were carried out and the system for monitoring items for importation was enhanced in FY 2011 for issues such as an outbreak of enterohemorrhagic *E.coli* O104 with a suspected source of fresh vegetables that caused health hazards in Europe and other regions, and the information on *Salmonella* contamination in Mexican papayas imported to the U.S and Canada (Table 7).

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

Table 1. Notification, Inspection and Violation Statuses (Apr-Sep 2011: Tentative)

No. of Notifications (cases)	Amount of Import (1,000 tons)	No. of Inspections[*1](cases)	Percentage[*2] (%)	No. of Violations (cases)	Percentage[*2] (%)
1,039,214	13,175	119,075 (52,811)[*3]	11.5	619	0.1
(previous FY) 1,011,512	12,013	128,344	12.7	736	0.1

∗1 Values obtained after excluding overlapping cases from the total values of inspections by governments, registered laboratories, and public organizations of the exporting country.

∗2 Proportion of the number of inspections to the number of notifications

∗3 Figures relate to inspection orders

Table 2. Major Violation Cases (Apr-Sep 2011: Tentative)

Violated Article	No. of Violations (cases)	Proportion (%)	Major Violations
Article 6 (Distribution of prohibited foods and additives)	165	25.9	Aflatoxin contamination in corn, peanuts, pearl-barley, nutmeg, cassia seeds, pistachio nuts, red pepper, etc.; contamination with toxic fish; detection of diarrhetic shellfish toxin; detection of cyanide; detection of Listeria monocytogenes in unheated meat products, natural cheese; and decay, deterioration and fungus formation due to accidents during the transport of rice, wheat and soybeans , etc.
Article 9 (Limitation on distribution, etc. of diseased meat, etc.)	3	0.5	Non-attachment of hygiene certificate
Article 10 (Limitation on distribution, etc. of additives, etc.)	33	5.2	Use of undesignated additives (tertiary butyl hydroquinone (TBHQ), cyclamate, azorubin, acetyl hydroperoxide, quinoline yellow, and methyl parahydroxybenzoate).
Article 11 (Standards and specifications for foods and additives)	386	60.6	Violation of specifications for vegetables and frozen vegetables (violation of standards for residual pesticides); violation of specifications for seafood and processed products thereof (violation of standards for residual veterinary drug, violation of standards for residual pesticide); violation of specifications for other processed products (positive reaction on coliform bacilli, etc.), violation of standards for usage of additives (sorbic acid, sodium benzoate, sulfur dioxide, etc.), violation of specifications for additives.
Article 18 (Standards and specifications for instruments and containers/packages)	39	6.1	Violation of specifications/standards for instruments and containers/packages; violation of specification for raw materials.
Article 62 (Mutatis mutandis as applied to toys, etc.)	11	1.7	Violation of specifications for toys or their raw materials.
Total	637 (total)*1 619 (number of notified violations)*2		

*1 Total number of item-by-item inspections

*2 Number of notifications for which inspection was carried out

Table 3. Implementation Status of Monitoring Inspections (Apr-Sep 2011: Tentative)

Food Group	Category of Inspected Items[*1]	No. of Programs Planned in FY[*2]	No. of Programs Implemented	No. of Violations
Livestock Foods Beef, pork, chicken, horse meat, poultry meat, and other meats	Antibacterial substances, etc.	2,238	1,048	1
	Residual agricultural chemicals	1,879	1,005	0
	Standards for constituents	716	345	0
	Exposure to radiation	29	5	0
Processed livestock foods Natural cheeses, meat products, ice cream, frozen products (meat products), and other products	Antibacterial substances, etc.	2,152	1,382	0
	Residual agricultural chemicals	953	894	0
	Additives	1,156	1,098	0
	Standards for constituents	3,076	1,550	8
	Exposure to radiation	5	0	0
Seafood products Bivalves, fish, shellfish (shrimps, prawns, crabs) and other products	Antibacterial substances, etc.	2,717	1,452	3
	Residual agricultural chemicals	2,003	1,363	0
	Additives	237	165	0
	Standards for constituents	720	549	0
	Exposure to radiation	29	5	0
Processed seafood Processed fish products (fillet, dried or minced fish, etc.), frozen food (seafood, fish), processed fish roe products, and other products	Antibacterial substances, etc.	4,149	2,500	6
	Residual agricultural chemicals	3,194	2,398	0
	Additives	1,876	1,663	0
	Standards for constituents	4,544	3,455	19
	Exposure to radiation	5	1	0
Agricultural foods Vegetables, fruit, wheat, barley, corn, beans, peanuts, nuts, seeds, and other products	Antibacterial substances, etc.	1,035	1,169	0
	Residual agricultural chemicals	11,674	7,192	25
	Additives	1,074	625	0
	Standards for constituents	1,303	894	0
	Mycotoxins	2,807	1,778	3
	GMOs	363	167	0
	Exposure to radiation	10	9	0
Processed agricultural foods Frozen products (processed vegetables), processed vegetable products, processed fruit products, spices, instant noodles, and other products	Antibacterial substances, etc.	299	167	0
	Residual agricultural chemicals	11,203	4,753	8
	Additives	4,433	3,103	0
	Standards for constituents	1,794	1,278	5
	Mycotoxins	2,572	1,218	0
	GMOs	119	41	0
	Exposure to radiation	479	165	0
Other foods Health foods, soups, flavourings, seasonings, sweets, edible oils, fat, frozen products, and other products	Residual agricultural chemicals	537	398	0
	Additives	3,046	1,710	4
	Standards for constituents	926	356	2
	Mycotoxins	717	410	0
Drinks and beverages Mineral water, soft drinks, alcoholic beverages, and other products	Residual agricultural chemicals	358	243	0
	Additives	956	707	0
	Standards for constituents	776	493	1
	Mycotoxins	118	66	0
Additives, equipment, containers and packages Toys	Standards for constituents	2,840	1,255	15
Foods subject to enhanced monitoring inspections	Confirmation of removal of SRM, antibacterial substances, etc., exposure to radiation.	5,000	2,269	0
Total (number) 5,000 was added to the No. of Programs Planned in FY as "foods subject to enhanced monitoring inspections."		86,117	51,344 Rate of program implemented:60%	100

*1：Examples of tested substances

・Antibacterial substances, etc.: antibiotics, synthetic antimicrobials, hormone drugs, etc.

・Residual agricultural chemicals: organophosphorous, organochlorine, carbamates, pyrethroid, etc.

・Additives: preservatives, coloring agents, sweetner, antioxidant, antimold agents, etc.

・Standards for constituents, etc.: Items stipulated in the compositional standards (bacteria count, coliform bacteria, Vibrio parahaemolyticus, etc.), pathogenic microorganisms (enterohemorrhagic E. coli O26, O104, O111, and O157, listeria monocytogenes, etc.), shellfish poisons (diarrhetic shellfish poison, paralytic shellfish poison), etc.

・Mycotoxin: aflatoxin, deoxynivalenol, patulin, etc.

・Genetically modified organs (GMOs): genetically modified foods, etc. that has not been assessed for safety.

・Exposure to radiation: whether the item is exposed to radiation.

*2：The number of item-by-item programs planned of antibacterial substances, agricultural chemicals, etc.

Table 4. Items Subject to Enhanced Monitoring Inspections*[1] (Apr-Sep 2011*[2])

Country/Region	Subject Foods	Test Items
China	Burdock roots	Aldicarb sulfoxide, Chlorpyrifos, Phoxim
	Eel	Ivermectin, Frazolidone
	Processed eel (frozen products, products broiled with source, products broiled without source only)	Bacterial count, Coliform bacteria
	Shrimp	Oxytetracycline, Tetracycline
	Ginger	BHC, Chlorpyrifos
	Immature beans	Fenpropathrin. Buprofezin
	Welsh onion	Tebufenozide. Fipronil
	Lychee	Imazalil, diflubenzuron
	Short-necked clam	Chloramphenicol
	Persimmon leaves (only those directly used for beverage)	Carbendazim, thiophanate, thiophanate-methyl, benomyl
	Sea urchin (for raw consumption)	Vibrio parahaemolyticus*[3]
	Sesame seeds	2, 4-D
	Chinese mitten crab	Furazolidone
	Chicken	Furaltadone
	Milk, dairy products, and processed foods containing those as an ingredient	Melamine
	Carrot	Methamidophos
	Goby fish	Chloramphenicol
	Hatakena	Dimethomorph
	Broccoli	Haloxyfop
	Matsutake mashroom	Chlorpyrifos
	Chinese bayberry (*Myrica rubra*)	4-Chlorophenoxyacetic acid
	Boiled octopus	Vibrio parahaemolyticus*[4]
	Farmed shrimp and prawn	Furazolidone
	Royal jelly	Chloramphenicol
	Salad onion	Pyrimethanil
USA	Strawberry	Propiconazole
	Celery	Bifenthrin
	Parsley	Chlorpyrifos
	Red current	Propiconazole
	Lentil	2, 4-D
Thailand	Shrimp	Oxytetracycline, Sulfadiazine, Sulfadimethoxine, Furazolidone
	Immature peas (limited to pod and snap beans)	Fenbuconazole
	Farmed shrimp and prawn	Oxolinic acid
	Frozen mango slices	Propiconazole
India	Cowpea	Tebuconazole
	Red pepper	Ethion
	Fermented tea	Triazophos
South Korea	Arch shells (for raw consumption)	Vibrio parahaemolyticus*[3]
	Jacknife clam	Endosulfan
	Sea urchin (for raw consumption)	Vibrio parahaemolyticus*[4]
	Egoma (*Perilla frutescens* var. *frutescens*)	Lufenuron
	Tairagikai (*Atrina pectinata*) for raw consumption	Vibrio parahaemolyticus*[3]
France	Black currant	Flusilazole
	Lentil	Piperonyl butoxide

Country/Region	Subject Foods	Test Items
Vietnam	Shrimp	Furaltadone
	Spinach	Chlorpyrifos, Dimethomorph
Belgium	Chicory	Thiabendazole
	Spinach	Boscalid
Indonesia	Farmed shrimp and prawn	Oxytetracycline, Tetracycline, Nitrofurantoin, Furazolidone
Ethiopia	Coffee beans	DDT, Chlordane, Heptachlor
Ghana	Cacao beans	Endosulfan, Chlorpyrifos, Pirimiphos-methyl
Venezuela	Cacao beans	Aflatoxin, Cypermethrin
Italy	Almonds	Aflatoxin
Ukraine	Chicken Egg	Furazolidone
Holland	Celeriac	Difenoconazole
Guatemala	Coffee beans	2, 4-D
Sudan	Sesame seeds	Carbaryl
Taiwan	Banana	Acetamiprid
Chile	Farm-raised salmon	Oxytetracycline
Nigeria	Cola nuts	BHC
Pakistan	Cumin seeds	Iprobenfos
Philippines	Boiled octopus	Vibrio parahaemolyticus*3
Brazil	Coffee beans	Flutriafol
Bolivia	Sesame seeds	Aflatoxin
Myanmar	Turmeric and processed turmeric products (limited to those using turmeric as a major ingredient and mixed spices containing turmeric at 10% or higher)	Aflatoxin
Mexico	Chicken	Lasalocid

∗1 Enhanced monitoring inspections, which are to be implemented after a violation has been detected, were conducted on 30% of all import declarations. Items which had seen inspection orders rescinded as a result of import or inspection results were also handled in the same way. However, if no similar violations were detected within 60 enhanced monitoring inspections, the items were returned to the normal inspection system.

∗2 Excludes items in Table 5.

∗3 As a measure to enhance inspections during the summer period, all (100%) import declarations were inspected (Jun-Oct 2011).

∗4 As a measure to enhance inspections during the summer period, 30% of import declarations were inspected (Jun-Oct 2011).

Table 5. Items Shifted to Inspection Orders (Apr-Sep 2011)

Country/Region	Subject food	Test Item
China	Eel	Furazolidone
	Wood ears (*Auricularia* spp.)	Chlorpyrifos
	Tokobushi abalone (*Sulculus diversicolor supertexta*)	Furazolidone
Mexico	Avocado	Methamidophos
	Guava	Cypermethrin
Iran	Processed pistachio nuts	Aflatoxin
Taiwan	Farm-raised eel	Furazolidone
Vietnam	Shrimp	Enrofloxacin

Table 6. Items Subject to Inspection Orders and Inspection Results (Apr-Sep 2011: Tentative)

Country/Region	Main subject foods	Main test items	No. of tests	No. of violations
All exporting countries (17item)	Peanut, Nuts, Chili pepper, etc.	Aflatoxin	4,627	13
	Beans containing cyanide, cassava	Cyanide	310	3
	Salted salmon roe	Nitrite	213	0
	Puffer fish	Differentiations of fish species	2	1
China (26 item)	Chicken, Pork, Shrimp, Eel, etc.	Furazolidone, Clenbuterol, Chlortetracycline, Malachite green, etc.	22,481	7
	Vegetables, Fruits, Fish, etc. (Welsh onion, Carrot, Oolong tea, Wood ears (*Auricularia* spp.), Bell pepper, etc.)	Aldicarb sulfoxide, Triadimenol, Triazophos, Chlorpyrifos, Difenoconazole, Pyrimethanil, etc.	14,756	11
	Bivalves	Paralytic shellfish poison, Diarrhetic shellfish toxin	3,086	3
	All processed foods	Cyclamic acid	388	3
	Lotus seeds	Aflatoxin	3	0
Thailand (11 item)	Vegetables, Fruit, etc. (Green asparagus, Okura, Mango, Lemon grass, etc.)	EPN, Chlorpyrifos, Propiconazole, etc.	852	0
South Korea (9 item)	Bivalves	Paralytic shellfish poison, Diarrhetic shellfish toxin	351	2
	Constricted tagelus, Freshwater clam, etc.	Endosulfan, etc.	58	0
	Red pepper, mini tomato, Paprika, etc.	Ethoprophos, Fluquinconazole, Chlorpyrifos, etc.	43	0
India (7 item)	Turmeric, Cassia seeds	Aflatoxin	190	0
	Vegetables, Fruit, etc. (Mango, Cumin, etc.)	Chlorpyrifos, Profenofos, etc.	41	0
	Farmed shrimp and prawn	Frazolidone	10	0
Italy (6 item)	Unheated meat products, etc.	Listeria monocytogenes	249	3
	Processed pistachio nuts	Aflatoxin	30	0
Vietnam (6 item)	Shrimp, Squid	Enrofloxacin, Trifluralin, Chloramphenicol, etc.	10,777	20
	Shrimp, Spinach, etc.	Trifluralin, Indoxacarb	3,741	7
	All processed foods	Cyclamic acid	42	0
Others (31 countries, 1 region, total 44 item)			9,249	46
Total			71,499	119

Table 7. Major Examples of Enhanced Monitoring based on Overseas Information (Apr-Sep 2011)

Month of enhancement	Subject country	Subject food and details	Background and status
June	All exporting countries	Fresh foods that are expected to be consumed without heating (enterohemorrhagic *E.coli* O104)	Health hazards by an outbreak of enterohemorrhagic *E.coli* O104 were confirmed in Europe and other regions. Monitoring inspections were carried out with a priority on the subject foods imported from the subject regions.
September	Mexico	Fresh papaya (*Salmonella* contamination)	*Salmonella* contamination was found from fresh papayas imported to the U.S. and Canada from Mexico. Guidance was given to hold the cargo and to conduct tests for *Salmonella* where an import notification was made for fresh papayas.
September	France	All foods (Nuclear accident)	An explosion accident occurred at a nuclear facility in the department of Gard, France. Guidance was given to hold the cargo where an import notification was made for foods exported from the applicable regions.

(Reference) Description of Key Terms Used in Results of Monitoring and Guidance

Term	Description
Zinc	Undesignated additive
Zinc amino acid chelate	Undesignated additive
Nitrogen monoxide	Additives (spray)
Acid blue	Undesignated additive
Acid fast red E	Undesignated additive
Potassium nitrite	Undesignated additive
Nitrite	Additives (coloring agent)
Zinc ascorbate	Undesignated additive
Magnesium asparaginate	Undesignated additive
Acesulfame potassium	Additives (sweetener)
Acetamiprid	Agricultural chemical (neonicotinoid insecticide)
Acetochlor	Agricultural chemical (anilide herbicide)
Acetone	Additives (manufacturing agent)
Acephate	Agricultural chemical (organophosphorous insecticide)
Sodium selenite	Undesignated additive
Azorubin	Undesignated additive
Atrazine	Agricultural chemical (organochlorine herbicide)
Aflatoxin	Fungal toxin produced by the fungus *Aspergillus*, etc.
Ametryn	Agricultural chemical (triazine herbicide)
Alachlor	Agricultural chemical (carboxyl amide herbicide)
Argon	Undesignated additive
Aldicarb sulfoxide	Agricultural chemical (insecticide)
Sodium aluminosilicate	Undesignated additive
Sodium benzoate	Additives (preservative)
Benzoic acid	Additives (preservative)
Isoprothiolane	Agricultural chemical (fungicide)
Isopropyl alcohol	Additives (flavoring agent)
Carbon monoxide	Undesignated additive
Genetic modification	Technology such as fragmentation of bacterial genes, followed by arrangement of the gene sequences or introducing the arranged genes into other organism's genes.
Iprobenfos	Agricultural chemical (fungicide)
Ivermectin	Veterinary drug (control agent of endoparasites)

Term	Description
Imazalil	Additives (antifungal agent)
Imidacloprid	Agricultural chemical (chlorinicotinyl insecticide)
Indoxacarb	Agricultural chemical (oxadiazon insecticide)
Ester gum	Additives (chewing gum base)
Ethion	Agricultural chemical (organophosphorous insecticide)
Ethyl acetone	Undesignated additive
Ethyl cellulose	Undesignated additive
Ethyl methyl ketone	Undesignated additive
Ethylene	Undesignated additive
Ethylene oxide	Undesignated additive
Ethylene glycol	Undesignated additive
Disodium ethylenediaminetetraacetate	Additives (antioxidant)
Calcium disodium ethylenediaminetetraacetate	Additives (antioxidant)
Ethoprophos	Agricultural chemical (organophosphorous insecticide)
Calcium chloride	Additives (enhancer)
Chromic chloride	Undesignated additive
Choline chloride	Undesignated additive
Stannous chloride	Undesignated additive
Methyl chloride	Undesignated additive
Methylene chloride	Undesignated additive
Endosulfan	Agricultural chemical (organochlorine insecticide)
Endrin	Agricultural chemical (organochlorine insecticide)
Enrofloxacin	Veterinary drug (new quinolone synthetic antibacterial agent)
Oxytetracycline	Veterinary drug (tetracycline antibiotic)
Oxolinic acid	Veterinary drug (synthetic antimicrobial (quinolone)
Orange II	Undesignated additive
Peracetic acid	Undesignated additive
Hydrogen peroxide	Additives (Bactericide, bleaching agent)
Calcium (amino acid chelate)	Undesignated additive
Carbaryl	Agricultural chemical (carbamate insecticide)
Carbendazim, Thiophanate, Thiophanate-Methyl and Benomyl (Total sum of carbendazim, etc.)	Agricultural chemical (fungicide)
Carboxymethylcellulose	Undesignated additive

Term	Description
Sodium carboxymethyl cellulose	Additives (thickening stabilizer)
Calmin	Undesignated additive
Carminic acid aluminium lake	Undesignated additive
Quinalphos	Agricultural chemical (organophosphorous insecticide)
Quinoline yellow	Undesignated additive
Zinc citrate	Undesignated additive
Chromium citrate	Undesignated additive
Vanadium citrate	Undesignated additive
Green B	Undesignated additive
Glycerin behenic acid ester	Undesignated additive
Glyphosate	Agricultural chemical (organophosphorous herbicide)
Glucuronolactone	Undesignated additive
Ferric gluconate	Additives (Enhancer)
Ferrous gluconate	Additives (color stabilizer)
Glutamine-α-ketoglutaric acid	Undesignated additive
Clenbuterol	Veterinary drug (breeding agent)
Croscarmellose	Undesignated additive
Croscarmellose sodium	Undesignated additive
Chromium amino acid chelate	Undesignated additive
Chromium picolinate	Undesignated additive
Chromium polynicotinate	Undesignated additive
Chrome (amino acid chelate)	Undesignated additive
Chloramphenicol	Veterinary drug (chloramphenicol antibiotic)
Chlortetracycline	Veterinary drug (tetracycline antibiotic)
Chlordane	Agricultural chemical (organochlorine insecticide)
Chlorpyrifos	Agricultural chemical (organophosphorous insecticide)
Chlorfenvinphos	Agricultural chemical (organophosphorous insecticide)
Chlorpropham	Agricultural chemical (carbamate herbicide)
Aluminum sodium silicate	Undesignated additive
Magnesium silicate	Undesignated additive
Aluminum potassium silicate	Undesignated additive
Aluminum sodium silicate	Undesignated additive
Diarrhetic shellfish toxin	Shellfish poison (mainly refers to toxins produced by a harmful plankton accumulated in clams, toxic clams cause diarrhetic poisoning)
Synthetic taurine	Undesignated additive

Term	Description
D-α-tocopherol succinate	Undesignated additive
Cochineal aluminium lake	Undesignated additive
Tocopherol succinate	Undesignated additive
Cobalt 60	Radioactive substance
Choline chloride	Undesignated additive
Choline bitartrate	Undesignated additive
Sodium cyclamate	Undesignated additive
Cyclamic acid	Undesignated additive
Ethyl acetate	Additives (flavoring agent)
Tocopherol acetate	Undesignated additive
Saccharin	Additives (sweetener)
Saccharin sodium	Additives (sweetener)
Salmonella bacteria	Pathogenic microorganism (Bacteria widely occurring in natural environments. They mainly contaminate chicken eggs and meat to cause stomachache, diarrhea, and fever)
Zinc oxide	Undesignated additive
Iron oxide	Undesignated additive
Iron (II/III) oxide	Additives (coloring agent)
Cyanide	Harmful or poisonous compound (Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans.
Diuron (DCMU)	Agricultural chemical (herbicide)
Sodium dichloroisocyanurate	Undesignated additive
Dichloromethane	Undesignated additive
Dichlone	Agricultural chemical (fungicide)
Dicofol	Agricultural chemical (organochlorine insecticide)
Dinotefuran	Agricultural chemical (neonicotinoid insecticide)
Difenoconazole	Agricultural chemical (triazole fungicide)
Cyfluthrin	Agricultural chemical (pyrethroid insecticide)
Diflubenzuron	Agricultural chemical (insect growth inhibitor)
Cypermethrin	Agricultural chemical (pyrethroid insecticide)
Dimethomorph	Agricultural chemical (fungicide)
Chlorine bitartrate	Undesignated additive
Potassium nitrate	Additives (coloring agent)
Sodium nitrate	Additives (coloring agent)
Brominated oils	Undesignated additive

Term	Description
Food coloring blue 1	Additives (coloring agent)
Food coloring Yellow 4	Additives (coloring agent)
Sucralose	Additives (sweetener)
Potassium stearate	Undesignated additive
Magnesium stearate	Additives (Enhancer)
Sodium stearolyl lactylate	Undesignated additive
Sulfadiazine	Synthetic antimicrobial (sulfur agent)
Sulphadimidine	Synthetic antimicrobial (sulfur agent)
Sulfamethoxazole	Synthetic antimicrobial (sulfur agent)
Selenium amino acid chelate	Undesignated additive
Sodium selenate	Undesignated additive
Sodium sorbate	Undesignated additive
Sorbic acid	Additives (preservative)
Potassium sorbate	Additives (preservative)
Dioxins	Term collectively refers to three kinds of substances: polychlorinated dibenzodioxins (PCDD), polychlorinated dibenzofuran (PCDF), and coplanar PCB
Talc	Additives (gum base)
Calcium carbonate	Additives (leavening agent)
Potassium bicarbonate	Undesignated additive
Thiamethoxam	Agricultural chemical (neonicotinoid insecticide)
Thiabendazole	Additives (antifungal agent), Agricultural chemical (fungicide)
Vibrio parahaemolyticus	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.)
Enterohemorrhagic Escherichia coli (E.coli) O26, O104, O111 and O157, etc.	Pathogenic microorganism (A bacterium that normally lives in the intestines of animals. It contaminates foods and drinking water by way of feces and urine, and causes acute abdominal pain and bloody diarrhea together with large amounts of fresh blood after early cold-like symptoms.)
Dieldrin	Agricultural chemical (insecticide)
Deoxynivalenol	Mycotoxin produced by fusarenon-X of the fusarium genus known as a pathogenic bacteria for fusarium head blight
Tetracycline	Veterinary drug (tetracycline antibiotic)
Tebuconazole	Agricultural chemical (triazole fungicide)
Tebufenozide	Agricultural chemical (benzoyl hydrazide insecticide)

Term	Description
Terbufos	Agricultural chemical (organophosphorous insecticide)
Sodium carboxymethylstarch	Additives (thickening stabilizer)
Sodium copper chlorophyllin	Additives (coloring)
Copper chlorophyll	Additives (coloring)
Triadimenol	Agricultural chemical (phenoxy fungicide)
Triazophos	Agricultural chemical (phenoxy insecticide)
Trifluralin	Agricultural chemical (dinitroaniline herbicide)
Tolfenpyrad	Agricultural chemical (pyrazole insecticide)
Nisin	Additives (preservative)
Sodium ethoxide	Undesignated additive
Natamycin	Additives (used in food manufacture)
Sulfur dioxide	Additives (antioxidant)
Chlorine dioxide	Additives (wheat flour treating agent)
Silicon dioxide	Additives (manufacturing agent)
Nitrofurans	Term collectively refers to nitrofuran synthetic antimicrobial that is used as veterinary drug
Zinc lactate	Additives (used in food manufacture)
Potassium lactate	Undesignated additive
Patulin	Mycotoxin produced by fungi of the genus Penicillium, Aspergillus, etc.
Patent blue V	Undesignated additive
Vanadium	Undesignated additive
P-hydroxy benzoic acid methyl	Undesignated additive
Parathion-methyl	Agricultural chemical (insecticide)
Haloxyfop	Agricultural chemical (herbicide)
Sodium hyaluronate	Undesignated additive
Biotin	Additives (enhancer)
Chromium picolinate	Undesignated additive
Vitamin K1	Undesignated additive
Bifenazate	Agricultural chemical (insecticide)
Bifenthrin	Agricultural chemical (pyrethroid insecticide)
Hypromellose	Undesignated additive
Piperonyl butoxide	Agricultural chemical, Veterinary drug (insect repellent)
Sunflower lecithin	Undesignated additive
Pyraclostrobin	Agricultural chemical (strobilurin fungicide)
Pyridaben	Agricultural chemical (insecticide)
Pyridalyl	Agricultural chemical (insecticide)

Term	Description
Pirimiphos-methyl	Agricultural chemical (organophosphorous insecticide)
Pyrimethanil	Agricultural chemical (aminopyrimidine fungicide)
Fipronil	Agricultural chemical (insecticide)
Fenitrothion	Agricultural chemical (insecticide)
Fenvalerate	Agricultural chemical (pyrethroid insecticide)
Fenbuconazole	Agricultural chemical (fungicide)
Fenpropathrin	Agricultural chemical (pyrethroid insecticide)
Butyl alcohols	Additives (flavoring)
Buprofezin	Agricultural chemical (insecticide)
Ferrous fumarate	Undesignated additive
Brown HT	Undesignated additive
Furazolidone	Veterinary drug (Nitrofuran synthetic antimicrobial); generates AOZ when metabolized
Black PN	Undesignated additive
Furaltadone	Veterinary drug (nitrofuran synthetic antimicrobial); generates AMOZ when metabolized
Brilliant black BN	Undesignated additive
Fluazifop	Agricultural chemical (phenoxy acid herbicide)
Fluquinconazole	Agricultural chemical (triazole fungicide)
Fludioxonil	Agricultural chemical (antifungal agent)
Flusilazole	Agricultural chemical (heterocyclic fungicide)
Flutriafol	Agricultural chemical (fungicide)
Procymidone	Agricultural chemical (fungicide)
Prothiofos	Agricultural chemical (organophosphorous insecticide)
Flonicamid	Agricultural chemical (piridine carboxamide insecticide)
Propionic acid	Additives (preservative)
Propiconazole	Agricultural chemical (fungicide)
Propylene glycol	Additives (solvent)
Profenofos	Agricultural chemical (organophosphorous insecticide)
Bromopropylate	Agricultural chemical (dust mite exterminator)
Hexaconazole	Agricultural chemical (triazole fungicide)
Hexamethylenetetramine	Undesignated additive
Hexane	Additives (oil and fat extraction agent)
Red 7	Undesignated additive
Heptachlor	Agricultural chemical (organochlorine insecticide)
Permethrin	Agricultural chemical (insecticide)
Benzylpenicillin	Veterinary drug (β lactam antibiotic)

Term	Description
Boric acid	Undesignated additive
Phoxim	Agricultural chemical (insecticide)
Boscalid	Agricultural chemical (anilide fungicide)
Polyethylene glycol	Undesignated additive
Polysorbate	Additives (emulsifier)
Polyvinyl alcohol	Undesignated additive
Polyvinylpyrrolidone	Undesignated additive
Polyvinylpolypyrrolidone	Additives (filtering aiding gent)
Magnesium amino acid chelate	Undesignated additive
Paralytic shellfish poison	Shellfish poison (mainly refers to toxins produced by a harmful plankton accumulated in clams, toxic clams cause paralytic poisoning)
Malachite green	Veterinary drug (triphenylmethane synthetic antibacterial agent)
Manganese amino acid chelate	Undesignated additive
Mannitol	Additives (anti-adhesive)
Acide metatatrique	Undesignated additive
Sodium metavanadate	Undesignated additive
Methanol	Colorless liquid with ethyl-alcohol-like aroma; strongly toxic
Methamidophos	Agricultural chemical (organophosphorous insecticide)
Methyl cyanocobalamin	Undesignated additive
Metconazole	Agricultural chemical (triazole fungicide)
Melamine	A chemical substance used as a primary raw material of melamine resins
Monocrotophos	Agricultural chemical (insecticide)
Molybdenum	Undesignated additive
Molybdenum amino acid chelate	Undesignated additive
Ammonium molybdate	Undesignated additive
Sodium molybdate	Undesignated additive
Iodized salt (sodium iodide)	Salt added with iodine, which is undesignated additive
Potassium iodide	Undesignated additive
Potassium iodate	Undesignated additive
Sodium lauryl sulfate	Undesignated additive
Lasalocid	Veterinary drug
Listeria monocytogenes	Pathogenic microorganism (A normal flora in the natural environment that contaminates milk products and processed meat products, and causes influenza-like symptoms including tiredness and fever.)
Copper sulfate	Additives (enhancer)
Zinc sulfate	Additives (enhancer)
Potassium sulfate	Undesignated additive

Term	Description
Manganese sulfate	Undesignated additive
Nickel sulfate	Undesignated additive
Liquid paraffin	Additives (mold-releasing agent)
Magnesium hydrogenphosphate	Undesignated additive
Sodium aliminumphosphate	Undesignated additive
Lufenuron	Agricultural chemical (dust mite exterminator)
Leucomalachite green	Metabolite of malachite green (a veterinary drug)
2, 4-D	Agricultural chemical (phenoxy acid herbicide)
4-Chlorophenoxyacetic acid	Agricultural chemical (growth regulating agent)
AMOZ	Metabolite of furaltadone (nitrofurans synthetic antimicrobial agent)
AOZ	Metabolite of furazolidone (nitrofurans synthetic antimicrobial agent)
A-type hepatitis	A-type hepatitis belongs to genus *Hepatovirus* in the family of picorna virus; become infected by consuming contaminated water, ice, vegetables and fruits, and fish and shellfish without heating.
BHA	Additives (antioxidant)
BHC	Agricultural chemical (organochlorine insecticide)
BHT	Additives (antioxidant)
BSE (bovine spongiform encephalopathy)	An indolent malignant central neurological disease in cattle that causes a spongy degeneration in the brain tissues and symptoms including astasia.
DDT	Agricultural chemical (organochlorine insecticide)
D-α-tocopheryl succinate	Undesignated additive
EPN	Agricultural chemical (organophosphorous insecticide)
L-arginine hydrochloride	Undesignated additive
L-Cysteine hydrochloride	Additives (antioxidant)
L-norvaline	Undesignated additive
N-Acetyl-L-glutamine	Undesignated additive
MCPA	Agricultural chemical (phenoxy herbicide)
SRM	Parts of a beef cow which accumulate the abnormal prion proteins thought to cause BSE (head (excluding tongue and cheek), spinal marrow, spine, and ileum (2 meters from the junction with the appendix)).
TBHQ	Undesignated additive
β-apo carotenal	Undesignated additive
γ-BHC (Lindane)	Agricultural chemical (organochlorine insecticide)