Contact

Office of Imported Food Safety, Inspection and Safety Division, Department of Food Safety, Pharmaceutical and Food Safety Bureau Ministry of Health, Labour and Welfare (Extension: 2474, 2497, 2498)

# Inspection Results of Imported Foods Monitoring and Guidance Plan $for \ FY \ 2008$

**Interim Report** 

December 2008

Department of Food Safety Pharmaceutical and Food Safety Bureau Ministry of Health, Labour and Welfare

### **Inspection Results of Imported Foods Monitoring and Guidance Plan**

#### for FY 2008 (An Interim report)

#### 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 2008 (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 Law (Law No. 233, 1947; hereinafter, "the Law"); 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.

The Ministry of Health, Labour and Welfare will publish an outline of the implementation status of the monitoring and instruction for imported foods, etc., conducted in accordance with the program, by June of the next year and will also publish the mid-year status around the middle of the fiscal year. An interim report on the results of the inspections conducted based on the program from April to September, 2008, which were summarized recently, will be published.

Reference: Website on "Safety of Imported Food"

http://www.mhlw.go.jp/topics/yunyu/tp0130-1.html

Inquiry: Office of Import Food Safety, Inspection and Safety Division, Department of Food Safety



#### 2. Overview of the Imported Foods Monitoring and Guidance Plan for FY 2008

#### (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 Law).

#### [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

Based on Article 4 of the Food and Safety Basic Law (Law 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 Law exist at the time of import declaration
- Monitoring\*<sup>1</sup> (Plan for 2008: about 80,000 items across 126 good groups)
- Inspection orders\*<sup>2</sup> (as of September 30, 2008:15 items from all exporting countries and 201 items from 36 countries and 1 region)
- Regulations for comprehensive import bans\*<sup>3</sup>
- 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 and monitoring systems for agricultural chemicals, etc., 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\*<sup>4</sup>
- Instructions on the 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 different food types.
- \*2: With regard to items having a high probability of being in violation of the Law, inspections are ordered by the Minister of Health, Labour and Welfare at each and every importation. Items are not permitted to be imported or distributed unless they pass that inspection.
- \*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.
- \*4: Development of pesticide residue testing methods for processed foods that will contribute to verifying raw material management.

# 3. Inspection results of the imported food monitoring and instruction program in 2008 (interim report)

**Table 1 Notification, Inspection and Violation Statuses (April-September 2008: Tentative Report)** 

No. of Notifications	Amount of import	No. of inspections *1	Percentage *2	No. of violations	Percentage *2
Cases	1,000 tons	Cases	%	Cases	%
887,703	12,046	91,955	10.4	501	0.06
(Records of the previous FY) 914,373	12,226	100,948	11,0	619	0.07

<sup>\*1</sup> Values obtained after excluding overlapping cases from the total values of monitoring inspection, inspection order, instructive inspection, etc.

**Table 2 Major Violation Cases (April–September 2008: Tentative Report)** 

			2008. Tentative Keport)
Violated article	Number of violations	Component percentage	Major violations
Article 6 (Distribution of prohibited foods and additives)	Cases 98	17.4	Aflatoxin-contaminated corn, pearl-barley, peanut, almond, sesame, etc.; cyanide-contaminated cassava; Listeria monocytogenes-contaminated meat products; detection of diarrhetic/paralytic shellfish toxin; and decay, deterioration and fungus formation due to accidents during rice transport
Article 9 (Limitation on distribution, etc. of diseased meat, etc)	5	0.9	No hygiene certificate attached
Article 10 (Limitation on distribution, etc. of additives, etc)	17	3.0	Processed foods that contain additives such as cyclamate, tertiary butylhydroquinone (TBHQ), patent blue V, azorubin, or any other additives not designated for use as additives
Article 11 (Standards and specifications for foods or additives)	431	76.7	Violation of specifications for vegetable and dried vegetable (violation of standards for residual pesticides); violation of specifications for seafood and its processed products (inclusion of antibacterial substances, and violation of standards for residual pesticides); violation of specifications for frozen foods (viable cell count, Escherichia coli and coliform bacilli); violation of standards for usage of additives (sorbic acid, benzoic acid, etc); excessive amount of residual additives(sulfur dioxide, etc.)
Article 18 (Standards and specifications for instruments and containers/packages)	10	1.8	Violation of specifications/standards for instruments and containers/packages; violation of specifications for each raw material
Article 62 (Mutatis mutandis application to toys, etc.)	1	0.2	Violation of specifications for toys or their raw materials
Total	562 (total nu 501 (number violations)		

<sup>\*2</sup> Percentage of the number of inspections to the number of notifications

Table 3 Implementation Status of Monitoring Inspection (April–September 2008: Tentative Report)

Tubic c Implementation	in Status of Mointoring Inspecti			
		Number of	Number of	Number
Food type	Category of inspection items	programs planned	programs	of
7 1.0 1		in the FY*	implemented	violations
<b>Livestock foods</b> Beef, pork, chicken, horse	Antibacterial substances	2,200	1,094	l
meat, poultry meat, and other	Residual agricultural chemicals	1,700	978	0
meats	Standards for constituents	650	330	0
Processed livestock foods	Antibacterial substances	1,500	942	5
Natural cheeses, processed meat	Residual agricultural chemicals	550	287	0
products, ice cream, frozen	Additives	1,100	913	0
products (meat products), and other products	Standards for constituents	1,800	956	4
	Antibacterial substances	3,500	1,577	2
<b>Seafood products</b> Bivalves, fish, shellfish	Residual agricultural chemicals	850	998	0
(shrimps, prawns, crabs) and	Additives	250	170	0
other products	Standards for constituents	900	553	0
Processed seafood	Antibacterial substances	3,300	2,152	0
Processed fish products (fillet,	Residual agricultural chemicals	1,750	1,518	0
dried or minced fish, etc.),	Additives			1
processed fish roe products,		1,800	1,596	-
and other products	Standards for constituents	3,900	2,819	19
	Antibacterial substances	750	834	0
Agricultural foods	Residual agricultural chemicals	18,350	8,761	48
Vegetables, fruit, wheat, barley,	Additives	600	337	0
corn, beans, peanuts, nuts, seeds, and other products	Standards for constituents	1,250	591	0
seeds, and other products	Mycotoxins	2,200	1,295	2
	GMOs	1,250	520	0
Processed agricultural foods	Residual agricultural chemicals	6,500	2,977	4
Frozen products processed	Additives	4,200	2,263	1
vegetables), processed vegetable products, processed fruit products, spices, instant noodles,	Standards for constituents	2,100	1,235	10
	Mycotoxins	2,250	911	0
and other products	GMOs	200	31	0
F	Exposure to radiation	300	208	1
Other foods	Antibacterial substances	300	24	0
Health foods, soups, flavorings,	Residual agricultural chemicals	250	252	0
seasonings, sweets, edible oils, fat, frozen products, and other	Additives	3,100	1,266	3
products	Standards for constituents	650	347	1
	Mycotoxins	600	295	0
Drinks and beverages	Residual agricultural chemicals	300	99	0
Mineral water, soft drinks,	Additives	900	651	0
alcoholic beverages, and other products	Standards for constituents	900	434	1
•	Mycotoxins	300	81	0
Additives, equipment, containers and packages	Standards for constituents	1,800	347	0
Toys	Standards for constituents	1,000	347	U
10,5	Confirmation of removal of SRM,			
Foods subject to	differentiation of fish species using			
reinforced monitoring	DNA-based techniques, antibacterial	5,000	2,409	0
inspection	substances, genetically modified	5,000	2,40)	U
	foods, exposure to radiation, food additives			
		79,800	43,051	103
T 11/ 1 \		, , , , , , ,	Rate of programs	105
Total (number)			implemented to	
			planned=~54%	
* The approximate number of n	ragrams assumted by asalt test item such		-	

<sup>\*</sup> The approximate number of programs counted by each test item such as antibiotics and pesticides in food products is shown.

Table 4 Items Subject to Reinforcement of Monitoring Inspection\* (April–September 2008 \*2)

AustraliaBarleyAmitraz, FipironilPhilippinesMangoesChlorpyrifos, CypermethrinFranceBlackcurrantBupirimate, FlusilazoleVenezuelaCacao beans, sesame seedsChlorpyrifosSouth KoreaGreen chiliFlusilazoleBangladeshChili peppersTriazophosLaosKaleFipironilSudanSesame seedsDiazinonGambiaSesame seedsγ-BHCGuatemalaSesame seedsMethamidophosAll exporters (excluding Nigeria)Sickle senna seedsAflatoxin	<u> </u>	to Kennoreement of Monitoring Inspection	(April September 2000 )	
Kale, Chinese chivesChlorpyrifosBuckwheat noodleAflatoxinLarge peanutsDaminozideMatsutake mushrooms, sesame seedsAcetochlorSpinachClothianidinGreen peppersDifenoconazoleKomatsuna (Brassica rapa var. peruviridis)PyrimethanilJapanese leeksPyrimethanilSwiss chardAtrazineRoyal jellyNitrofuransSaisin (Asarum sieboldii ), Kan-JongEPNSoft-shelled turtlesEnrofloxacin, Furaltadonecoconut trunkPaclobutrazolDazometMetamMyanmarGalvanso beanCypermethrinYemenCoffee beansChlordane, γ-BHC, HeptachloAustraliaBarleyAmitraz, FipironilPhilippinesMangoesChlorpyrifos, CypermethrinFranceBlackcurrantBupirimate, FlusilazoleVenezuelaCacao beans, sesame seedsChlorpyrifosSouth KoreaGreen chiliFlusilazoleBangladeshChili peppersTriazophosLaosKaleFipironilGambiaSesame seedsDiazinonGambiaSesame seedsMethamidophosAll exporters (excluding Nigeria)Sickle senna seedsAflatoxin	Countries/Regions	Subject foods	Test items	
Buckwheat noodle         Aflatoxin           Large peanuts         Daminozide           Matsutake mushrooms, sesame seeds         Acetochlor           Spinach         Clothianidin           Green peppers         Difenoconazole           Komatsuna (Brassica rapa var. peruviridis)         Pyrimethanil           Japanese leeks         Pyrimethanil           Swiss chard         Artazine           Royal jelly         Nitrofurans           Saisin (Asarum sieboldii ), Kan-Jong         EPN           Soft-shelled turtles         Enrofloxacin, Furaltadone           coconut trunk         Paclobutrazol           Dazomet         Metam           Methyl isothiocyanate         Patulin           Apple juice         Patulin           Apple juice         Patulin           Galvanso bean         Cypermethrin           Coffee beans         DDT           Yemen         Coffee beans         Chlordane, γ-BHC, Heptachlo           Australia         Barley         Amitraz, Fipirionil           Philippines         Mangoes         Chlorpyrifos, Cypermethrin           France         Blackcurrant         Bupirimate, Flusilazole           Venezuela         Cacao beans, sesame seeds         Chlorpyrifo		Eels	Endosulfan	
Large peanutsDaminozideMatsutake mushrooms, sesame seedsAcetochlorSpinachClothianidinGreen peppersDifenoconazoleKomatsuna (Brassica rapa var. peruviridis)PyrimethanilJapanese leeksPyrimethanilSwiss chardAtrazineRoyal jellyNitrofuransSaisin (Asarum sieboldii ), Kan-JongEPNThailandSoft-shelled turtlesEnrofloxacin, Furaltadonecoconut trunkPaclobutrazolPotatoesMethyl isothiocyanateApple juicePatulinApple juicePatulinApple juicePatulinYemenCoffee beansChlordane, γ-BHC, HeptachloAustraliaBarleyAmitraz, FipironilPhilippinesMangoesChloryrifos, CypermethrinFranceBlackcurrantBupirimate, FlusilazoleVenezuelaCacao beans, sesame seedsChloryrifosSouth KoreaGreen chiliFlusilazoleBangladeshChili peppersTriazophosLaosKaleFipironilSudanSesame seedsDiazinonGambiaSesame seedsDiazinonAll exporters (excluding Nigeria)Sesame seedsAflatoxinAll exporters (excluding India)Sickle senna seedsAflatoxin		Kale, Chinese chives	Chlorpyrifos	
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China       Spinach Green peppers       Clothianidin         Komatsuna (Brassica rapa var. peruviridis)       Pyrimethanil         Japanese leeks       Pyrimethanil         Swiss chard       Atrazine         Royal jelly       Nitrofurans         Saisin (Asarum sieboldii ), Kan-Jong       EPN         Soft-shelled turtles       Enrofloxacin, Furaltadone         coconut trunk       Paclobutrazol         Dazomet       Metam         Metam       Methyl isothiocyanate         Apple juice       Patulin         Apple juice       Patulin         Coffee beans       DDT         Yemen       Coffee beans       DDT         Australia       Barley       Amitraz, Fipironil         Philippines       Mangoes       Chlorpyrifos, Cypermethrin         France       Blackcurrant       Bupirimate, Flusilazole         Venezuela       Cacao beans, sesame seeds       Chlorpyrifos         South Korea       Green chili       Flusilazole         Bangladesh       Chili peppers       Triazophos         Laos       Kale       Fipironil         Sudan       Sesame seeds       Diazinon         Gambia       Sesame seeds       Aflatoxin		Large peanuts	Daminozide	
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Japanese leeks   Pyrimethanil		Green peppers	Difenoconazole	
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PhilippinesMangoesChlorpyrifos, CypermethrinFranceBlackcurrantBupirimate, FlusilazoleVenezuelaCacao beans, sesame seedsChlorpyrifosSouth KoreaGreen chiliFlusilazoleBangladeshChili peppersTriazophosLaosKaleFipironilSudanSesame seedsDiazinonGambiaSesame seedsγ-BHCGuatemalaSesame seedsMethamidophosAll exporters (excluding Nigeria)Sickle senna seedsAflatoxin	Australia	Darlay	Amitraz,	
FranceBlackcurrantBupirimate, FlusilazoleVenezuelaCacao beans, sesame seedsChlorpyrifosSouth KoreaGreen chiliFlusilazoleBangladeshChili peppersTriazophosLaosKaleFipironilSudanSesame seedsDiazinonGambiaSesame seedsγ-BHCGuatemalaSesame seedsMethamidophosAll exporters (excluding Nigeria)Sesame seedsAflatoxinAll exporters (excluding India)Sickle senna seedsAflatoxin	Australia	Balley		
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Sudan       Sesame seeds       Diazinon         Gambia       Sesame seeds       γ-BHC         Guatemala       Sesame seeds       Methamidophos         All exporters (excluding Nigeria)       Sesame seeds       Aflatoxin         All exporters (excluding India)       Sickle senna seeds       Aflatoxin	Bangladesh	Chili peppers		
Gambia       Sesame seeds       γ-BHC         Guatemala       Sesame seeds       Methamidophos         All exporters (excluding Nigeria)       Sesame seeds       Aflatoxin         All exporters (excluding India)       Sickle senna seeds       Aflatoxin	Laos	Kale		
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All exporters (excluding Nigeria)  All exporters (excluding India)  Sesame seeds  Aflatoxin  Aflatoxin	Guatemala	Sesame seeds	Methamidophos	
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(excluding India)		Siekla sanna saads	Aflatovin	
		Siekie Scilla Sceus	Aflatoxin	
	All exporters			
(excluding U.S. and Processed almond products Aflatoxin	(excluding U.S. and	Processed almond products	Aflatoxin	
Italy)	Italy)			

<sup>\*1</sup> These items are subjected to inspection reinforcement after a violation is detected; this is usually done for 30% of the total number of notifications.

<sup>\*2</sup> Excludes items included in Table 5.

Table 5 Items Shifted to Inspection Order (April–September, 2008)

Countries/Regions	Subject foods	Test items
	Chicken	Furaltadone Furazolidone
China	Carrots	Acephate
	Milk, dairy products, and processed foods containing those as an ingredient	Melamine
Ethiopia	Coffee beans	γ-BHC DDT Chlordane Heptachlor
Taiwan	Carrots	Acephate Methamidofos
Philippines	Okra	Fluazifop Methamidofos
Brazil	Wheat	Methamidofos
Thailand	Asparagus	EPN
India	Sickle senna seeds	Aflatoxin
Nigeria	Sesame seeds	Aflatoxin
Italy	Processed almond products	Aflatoxin
Vietnam	Seafood products (Limited to those consumed unheated or those not confirmed to have received adequate heat treatment [either equaling or surpassing 70 degrees Celsius for one minute] in Japan before selling)*	Shigella
Canada	Lobster (Limited to edible organs, such as tomalley and digestive organs inside the shell, of lobsters from Atlantic coastal waters)	Paralytic shellfish poison
US	Foods containing soft and semi-soft type natural cheese as a major ingredient (Limited to those consumed unheated)*	Listeria monocytogenes

Table 6 Items Subject to Inspection Order and Inspection Results (April–September 2008: Tentative Report)

Countries/ Regions	Main subject foods	Main test items	Number of tests	Number of violations
All	Peanuts, chili peppers, nuts, pearl barley, figs, etc.	Aflatoxin	4,305	29
exporters	Salted salmon roe	Root nitrite, etc.	216	2
(16 items)	Cyanide-containing beans, cassava	Cyanide	255	5
	Chicken, shrimps, eels, mackerel, honey, clam, etc.	Nitrofurans, tetracylines antibiotics, malachite green, enrofloxacin, etc	23,438	26
China (46 items)	Japanese leeks, Shiitake mushrooms, carrots, green peppers, etc.	Acetochlor, fenpropathrin, methamidophos, pyrimethanil, etc.	13,361	14
	Clams	Paralytic shellfish toxin, diarrhetic shellfish toxin	2,435	7
	Processed eel products, etc.	Bacteria count, coliform bacteria	642	0
	All processed products	Cyclamate	543	0
	Cultured shrimps	Oxolinic acid	1,198	0
Thailand (25 items)	Okra, green asparagus, mangoes, bananas, etc.	EPN, chlorpyrifos, cypermethrin, etc	1,387	2
	Basil seeds	Aflatoxin	2	0
	Constricted tagelus	Endosulfan	85	10
Korea	Paprikas, red peppers, perilla, etc.	Ethoprophos, chlorpyrifos, tebuconazole, bifenthrin	395	4
(20 items)	Clams, etc.	Paralytic shellfish toxin, diarrhetic shellfish toxin	472	1
	Ark shells to be eaten raw	Vibrio parahaemolyticus	1	0
	Eels, royal jelly, etc.	Chloramphenicol, nitrofurans etc.	2,949	0
Taiwan (16 items)	Oolong tea, mangoes, carrots, etc.	Bromopropylate, methamidophos, cypermethrin, etc.	416	14
	All processed products	Cyclamate	12	0
US	Corn, parsley, etc.	Pirimiphos-methyl, chlorpyrifos, etc.	167	0
(12 items)	Corn, processed almond products	Aflatoxin	1,349	21
	Shrimps, cuttlefish, etc.	Chloramphenicol, nitrofurans etc.	14,184	20
Vietnam	Spinach	Indoxacarb	73	0
(8 items)	Sesame seeds, etc	Aflatoxin	21	0
	Seafood products	Shigella	6	0
	All processed products	Cyclamic acid	51	0
	untries, 58 items)		13,837	70*
Total	v. Coffee beeng produced in	Ethionia (v. DUC. ata.): 22 as	81,800	225

<sup>\*</sup> Breakdown: Coffee beans produced in Ethiopia (γ-BHC, etc.): 32 cases; Cacao beans produced in Ecuador (2,4-D): 15 cases; Okra produced in the Philippines (fluazifop): 6 cases; Cacao beans produced in Ghana (pirimiphos-methyl): 6 cases

Table 7 Records of Pesticide Residue Testing of Processed Foods (April-September 2008: **Tentative Report**)

	-/				
Food category	Processed livestock foods*1	Processed seafood*2	Processed agricultural foods* <sup>3</sup>	Other foods*4	Total
Number of tests	291	375	274	233	1,173
Number of violations	0	0	0	0	0

\*1 Example: pork cutlet, sausage
\*2 Example: deep-fried prawns, broiled eel
\*3 Example: bread, french fries

\*4 Example: pot stickers, octopus dumplings, beverages

Table 8 Major Cases in Which Monitoring Was Reinforced Based on Information From Overseas (April–September 2008)

Overseas (April			
Month of reinforcement	Country	Food and contents	Background and monitoring status
April 2008	US	Cereal (possibly contaminated with Salmonella)	Measures were taken to return shipments for each import notification of such products based on information regarding product recall in the US.
April 2008	Italy	Natural cheese (possibly contaminated with Listeria)	Measures were taken to return shipments for each import notification of such products, based on information that Italian-produced cheese was found to be contaminated with Listeria monocytogenes in Germany. Voluntary inspections measures were taken for cheese produced by the manufacturer in question.
April 2008	Australia	Baby food (possibly containing foreign matters)	Measures were taken to return shipments for each import notification of such products based on information regarding product recall in Australia.
June 2008	US	Melon (possibly contaminated with Salmonella)	Measures were taken to return shipments for each import notification of such a product based on information regarding product recall in the US.
July 2008	New Zealand	Beef (possibly contaminated with endosulfan)	Voluntary inspections measures were taken for each import notification of such a product in response to a report from Korea that beef from New Zealand was found to be tainted with endosulfan.
July 2008	Mexico	Hot peppers (possibly contaminated with Salmonella)	In response to a report that Mexican-grown raw peppers had been linked to a salmonella outbreak in the US, guidelines were issued for each import notification of such products, outlining the use of raw peppers only for heat processed foods.
July 2008	Canada/US	Lobster (possibly contaminated with paralytic shellfish poison)	Voluntary inspections measures were taken for each import notification of lobster from the waters of the Atlantic Ocean from Canada to the US based on a warning issued in the US to avoid eating lobster tomalley because of potential contamination with paralytic shellfish poison.
August 2008	Chile	Pork (possibly contaminated with dioxins)	Based on a report from Korea that Chilean pork was found to be tainted with dioxins, measures were taken to ban imports of pork produced at the related farms, and to monitor pork produced at other farms for dioxins.
September 2008	China	Baby formula (possibly containing melamine)	Orders were put in place to suspend import notifications of milk and dairy products based on a report from China regarding the occurrence of kidney stones in infants as a result of baby formula. Guidelines were issued for importers of processed foods containing milk and dairy products to check the raw materials for melamine and to conduct voluntary inspections upon import.

## (Reference) A description of Key Terms in the Interim Report

Sodium nitrite Additive (color-fixing agent) whose maximum residual amounts as root nitrite are defined  Acetochlor Pesticide (anilide herbicide)  Acephate Pesticide (organophosphorus insecticide)  Azorubin Undesignated additive (coloring agent)  Atrazine Pesticide (triazine herbicide)  Aflatoxin Pungal toxin (produced by the fungus Aspergillus, etc.)  Amitraz Pesticide (amizine insecticide)  Benzoica acid Additive (preservative)  Gene modification Atechnique in which a part of a gene of a bacterium, etc., is segemented, and the constituent elements are recombined and returned to the gene of the original organism or recombined with a gene of another organism  Indoxacarb Pesticide (oxadiazon insecticide)  Ethoprophos Pesticide (oxadiazon insecticide)  Entofloxacin Animal drug (synthetic antimicrobial (new quinolone))  Oxolinic acid Animal drug (synthetic antimicrobial (quinolone))  Clothanidin Pesticide (neonicotinoide insecticide)  Chloramphenicol Animal drug (synthetic antimicrobial (quinolone))  Chloradne Pesticide (organophosphorus insecticide)  Chloraptifos Pesticide (organophosphorus insecticide)  Cylamate Undesignated additive (sweetener)  Cyanide Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans  Dinotefuran Pesticide (neonicotinoide insecticide)  Shigella Pesticide (introgen-containing bactericide)  Shigella Pesticide (neonicotinoide insecticide)  Cypermethrin Pesticide (organophosphorus insecticide)  Shigella Pesticide (organophosphorus insecticide)  Cypermethrin Pesticide (organophosphorus insecticide)  Shigella Pesticide (organophosphorus insecticide)  Cypermethrin Pesticide (organophosphorus insecticide)  Shigella Pesticide (organophosphorus insecticide)  Cypermethrin Pesticide (organophosphorus insecticide)  Cypermethrin Pesti	Term	Description		
Acetochlor Pesticide (anilide herbicide) Acephate Pesticide (organophosphorus insecticide) Azorubin Undesignated additive (coloring agent) Atrazine Pesticide (triazine herbicide) Aflatoxin Fungal toxin (produced by the fungus Aspergillus, etc.) Amitraz Pesticide (amizine insecticide) Benzoic acid Additive (preservative) Gene modification Atechnique in which a part of a gene of a bacterium, etc., is segemented, and the constituent elements are recombined and returned to the gene of the original organism or recombined with a gene of another organism Indoxacarb Pesticide (organophosphorus insecticide) Ethoprophos Pesticide (organophosphorus insecticide) Endosulfan Pesticide (organophosphorus insecticide) Enrofloxacin Animal drug (synthetic antimicrobial (new quinolone)) Oxolinic acid Animal drug (synthetic antimicrobial (quinolone)) Clothianidin Pesticide (neonicotinoide insecticide) Chloramphenicol Animal drug (antibiotic (chloramphenicol)) Chlordane Pesticide (organophosphorus insecticide) Chlorpyrifos Pesticide (organophosphorus insecticide) Diarrhetic shellfish toxin Shellfish toxin (mainly refers to toxins produced by a harmful plankton accumulated in clams; toxic clams cause diarrhetic poisoning) Cyclamate Undesignated additive (sweetener) Cyanide Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans Dinotefuran Pesticide (introgen-containing bactericide) Diffencoonazole Pesticide (introgen-containing bactericide) Shigella Pathogenic microorganism (A bacterium that normally lives in the intestines of humans and animals and causes gastroenteritis.) Sorbic acid Additive (preservative) Diazinon Pesticide (organophosphorus insecticide) Dioxins Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)	Sodium nitrite	Additive (color-fixing agent) whose maximum residual amounts as root		
Acephate Pesticide (organophosphorus insecticide)  Azorubin Undesignated additive (coloring agent)  Atrazine Pesticide (triazine herbicide)  Aflatoxin Fungal toxin (produced by the fungus Aspergillus, etc.)  Amitraz Pesticide (amizine insecticide)  Benzoic acid Additive (preservative)  Gene modification At technique in which a part of a gene of a bacterium, etc., is segemented, and the constituent elements are recombined and returned to the gene of the original organism or recombined with a gene of another organism  Indoxacarb Pesticide (organophosphorus insecticide)  Ethoprophos Pesticide (organophosphorus insecticide)  Endosulfan Pesticide (organophosphorus insecticide)  Endosulfan Pesticide (organophosphorus insecticide)  Enrofloxacin Animal drug (synthetic antimicrobial (new quinolone))  Oxolinic acid Animal drug (synthetic antimicrobial (quinolone))  Clothiamidin Pesticide (neonicotinoide insecticide)  Chloramphenicol Animal drug (antibiotic (chloramphenicol))  Chlordane Pesticide (organophosphorus insecticide)  Chlorapyrifos Pesticide (organophosphorus insecticide)  Diarrhetic shellfish toxin Shellfish toxin (mainly refers to toxins produced by a harmful plankton accumulated in clams; toxic clams cause diarrhetic poisoning)  Cyclamate Undesignated additive (sweetener)  Cyanide Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans  Dinotefuran Pesticide (introgen-containing bactericide)  Difencoonazole Pesticide (introgen-containing bacterium that normally lives in the intestines of humans and animals and causes gastroenteritis.)  Sorbic acid Additive (preservative)  Diazinon Pesticide (organophosphorus insecticide)  Dioxins Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzo-furan (PCDF), and coplanar PCB (CoPCB)		nitrite are defined		
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Atrazine Pesticide (triazine herbicide) Aflatoxin Fungal toxin (produced by the fungus Aspergillus, etc.) Amitraz Pesticide (amizine insecticide) Benzoic acid Additive (preservative) Gene modification A technique in hich a part of a gene of a bacterium, etc., is segemented, and the constituent elements are recombined and returned to the gene of the original organism or recombined with a gene of another organism Indoxacarb Pesticide (oxadiazon insecticide) Ethoprophos Pesticide (organophosphorus insecticide) Endosulfan Pesticide (organophosphorus insecticide) Endosulfan Pesticide (organophosphorus insecticide) Enrofloxacin Animal drug (synthetic antimicrobial (new quinolone)) Oxolinic acid Animal drug (synthetic antimicrobial (quinolone)) Clothianidin Pesticide (neonicotinoide insecticide) Chloramphenicol Animal drug (antibiotic (chloramphenicol)) Chlordane Pesticide (organophosphorus insecticide) Chloryrifos Pesticide (organophosphorus insecticide) Diarrhetic shellfish toxin Shellfish toxin (mainly refers to toxins produced by a harmful plankton accumulated in clams; toxic clams cause diarrhetic poisoning) Cyclamate Undesignated additive (sweetener) Cyanide Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans Dinotefuran Pesticide (neonicotinoide insecticide) Difenoconazole Pesticide (nitrogen-containing bactericide) Cypermethrin Pesticide (pyrethroid insecticide) Shigella Pathogenic microorganism (A bacterium that normally lives in the intestines of humans and animals and causes gastroenteritis.) Sorbic acid Additive (preservative) Diazinon Pesticide (organophosphorus insecticide) Dioxins Generic name for a group of three organic compounds containing chlorine: polychorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)	Acephate	Pesticide (organophosphorus insecticide)		
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Amitraz Pesticide (amizine insecticide)  Benzoic acid Additive (preservative)  Gene modification A technique in which a part of a gene of a bacterium, etc., is segemented, and the constituent elements are recombined and returned to the gene of the original organism or recombined with a gene of another organism  Indoxacarb Pesticide (oxadiazon insecticide)  Ethoprophos Pesticide (organophosphorus insecticide)  Endosulfan Pesticide (organophosphorus insecticide)  Enrofloxacin Animal drug (synthetic antimicrobial (new quinolone))  Oxolinic acid Animal drug (synthetic antimicrobial (quinolone))  Clothianidin Pesticide (neonicotinoide insecticide)  Chloramphenicol Animal drug (antibiotic (chloramphenicol))  Chloramphenicol Animal drug (antibiotic (chloramphenicol))  Chlorapyrifos Pesticide (organophosphorus insecticide)  Diarrhetic shellfish toxin  Shellfish toxin (mainly refers to toxins produced by a harmful plankton accumulated in clams; toxic clams cause diarrhetic poisoning)  Cyclamate Undesignated additive (sweetener)  Cyanide Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans  Dinotefuran Pesticide (neonicotinoide insecticide)  Difenoconazole Pesticide (nitrogen-containing bactericide)  Cypermethrin Pesticide (pyrethroid insecticide)  Shigella Pathogenic microorganism (A bacterium that normally lives in the intestines of humans and animals and causes gastroenteritis.)  Sorbic acid Additive (preservative)  Diazinon Pesticide (organophosphorus insecticide)  Dioxins Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzo-furan (PCDF), and coplanar PCB (CoPCB)	Atrazine	Pesticide (triazine herbicide)		
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Gene modification A technique in which a part of a gene of a bacterium, etc., is segemented, and the constituent elements are recombined and returned to the gene of the original organism or recombined with a gene of another organism  Indoxacarb Pesticide (oxadiazon insecticide)  Ethoprophos Pesticide (organophosphorus insecticide)  Endosulfan Pesticide (organochlorine insecticide)  Enrofloxacin Animal drug (synthetic antimicrobial (new quinolone))  Oxolinic acid Animal drug (synthetic antimicrobial (quinolone))  Clothianidin Pesticide (neonicotinoide insecticide)  Chloramphenicol Animal drug (antibiotic (chloramphenicol))  Chlordane Pesticide (organophosphorus insecticide)  Chlorpyrifos Pesticide (organophosphorus insecticide)  Diarrhetic shellfish toxin Shellfish toxin (mainly refers to toxins produced by a harmful plankton accumulated in clams; toxic clams cause diarrhetic poisoning)  Cyclamate Undesignated additive (sweetener)  Cyanide Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans  Dinotefuran Pesticide (nonicotinoide insecticide)  Cypermethrin Pesticide (introgen-containing bactericide)  Shigella Pathogenic microorganism (A bacterium that normally lives in the intestines of humans and animals and causes gastroenteritis.)  Sorbic acid Additive (preservative)  Diazinon Pesticide (organophosphorus insecticide)  Diexins Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)  Dazomet, Metam and Methyl isothiocyanate	Amitraz	Pesticide (amizine insecticide)		
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Diarrhetic shellfish toxin	Chlordane	Pesticide (organochlorine insecticide)		
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Such as some varieties of beans  Dinotefuran  Pesticide (neonicotinoide insecticide)  Difenoconazole  Pesticide (nitrogen-containing bactericide)  Cypermethrin  Pesticide (pyrethroid insecticide)  Shigella  Pathogenic microorganism (A bacterium that normally lives in the intestines of humans and animals and causes gastroenteritis.)  Sorbic acid  Additive (preservative)  Diazinon  Pesticide (organophosphorus insecticide)  Dioxins  Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)  Dazomet, Metam and Methyl isothiocyanate  Pesticide (soil disinfectant)	Cyclamate	Undesignated additive (sweetener)		
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Shigella Pathogenic microorganism (A bacterium that normally lives in the intestines of humans and animals and causes gastroenteritis.)  Sorbic acid Additive (preservative)  Diazinon Pesticide (organophosphorus insecticide)  Dioxins Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)  Dazomet, Metam and Methyl isothiocyanate Pesticide (soil disinfectant)	Difenoconazole	Pesticide (nitrogen-containing bactericide)		
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Sorbic acid  Additive (preservative)  Pesticide (organophosphorus insecticide)  Dioxins  Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)  Dazomet, Metam and Methyl isothiocyanate  Pesticide (soil disinfectant)	Shigella	Pathogenic microorganism (A bacterium that normally lives in the intestines		
Diazinon Pesticide (organophosphorus insecticide)  Dioxins Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)  Dazomet, Metam and Methyl isothiocyanate Pesticide (soil disinfectant)		of humans and animals and causes gastroenteritis.)		
Dioxins  Generic name for a group of three organic compounds containing chlorine: polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)  Dazomet, Metam and Methyl isothiocyanate  Pesticide (soil disinfectant)	Sorbic acid	Additive (preservative)		
polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), and coplanar PCB (CoPCB)  Dazomet, Metam and Methyl isothiocyanate  Pesticide (soil disinfectant)	Diazinon	Pesticide (organophosphorus insecticide)		
Dazomet, Metam and Methyl isothiocyanate coplanar PCB (CoPCB)  Pesticide (soil disinfectant)	Dioxins	Generic name for a group of three organic compounds containing chlorine:		
Dazomet, Metam and Methyl isothiocyanate Pesticide (soil disinfectant)		polychlorodibenzo-p-dioxin (PCDD), polychlorodibenzofuran (PCDF), ar		
Methyl isothiocyanate Pesticide (soil disinfectant)		coplanar PCB (CoPCB)		
Daminozide Pesticide (plant growth regulator)	· ·	Pesticide (soil disinfectant)		
	Daminozide	Pesticide (plant growth regulator)		

Term	Description
V. parahaemolyticus	Pathogenic microorganism (normal flora in seawater, a Vibrio species that
	mainly contaminates fishes and shellfishes and causes acute gastroenteritis)
Tetracycline antibiotic	Antibiotic (mainly refers to oxytetracycline, chlortetracycline,tetracyline)
Tebufenozide	Pesticide (benzoyl hydrazide insecticide)
Triazophos	Pesticide (organophosphorus insecticide)
Sulfur dioxide	Additive (antioxidant)
Nitrofurans	Generic name for nitrofuran synthetic antibacterial agent, an animal drug
Paclobutrazol	Pesticide (plant growth regulator)
Patulin	Fungal toxin (toxin produced by the fungi <i>Penicillium</i> , <i>Aspergillus</i> , etc.)
Patent blue V	Undesignated additive (coloring agent)
Pirimiphos-methyl	Pesticide (organophosphorus insecticide)
Pyrimethanil	Pesticide (anilinopyrimidine fungicide)
Fipronil	Pesticide (phenylpyrazol insecticide)
Fenpropathrin	Pesticide (pyrethroid insecticide)
Bupirimate	Pesticide (pyrimidine fungicide)
Furazolidone	Animal drug (nitrofuran synthetic antibacterial agent); generates AOZ when
	metabolized
Furaltadone	Animal drug (nitrofuran synthetic antibacterial agent); generates AMOZ
	when metabolized
Fluazifop	Pesticide (phenoxy acid herbicide)
Flusilazole	Pesticide (nitrogen containing bactericide)
Bromopropylate	Pesticide (organochlorine insecticide)
Heptachlor	Pesticide (organochlorine insecticide)
Polysorbate	Undesignated additive (emulsifying agent)
Paralytic shellfish	Shellfish poison (mainly refers to toxins produced by a harmful plankton
poison	accumulated in clams, toxic clams cause paralytic poisoning)
Malachite green	Animal drug (triphenylmethane symthetic antibacterial agent)
Methamidophos	Pesticide (organophosphorus insecticide)
Melamine	A chemical substance used as a primary raw material of melamine resin
Listeria monocytogenes	Pathogenic microorganism (a normal flora in the natural environment that
	contaminates milk products and causes listeriosis)
γ-ВНС	Pesticide (organochlorine insecticide)
DDT	Pesticide (organochlorine insecticide)
EPN	Pesticide (organophosphorus insecticide)
SRM	Parts of a cow (the head [excluding tongue and cheek meat], the spinal cord,
	vertebral column, and ileum [up to a 2-m region from its connection with the
	cecum]) indicating the accumulation of an abnormal prion protein that is a
	possible causative agent of BSE (bovine spongiform encephalopathy).
TBHQ	Undesignated additive (antioxidant)