

Final Report on the “Pet Food Testing Exercise in Hong Kong” for the Agriculture, Fisheries and Conservation Department

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Table of contents

1. Introduction.....	3
2. Objective.....	3
3. Methodology.....	3
3.1 Market survey on pet food products sold in Hong Kong	3
3.2 Allocation and selection of pet food samples for analysis	5
4. Scope and methodology of testing	8
4.1 Scope of testing	8
4.2 Methodology of testing and reporting limits of substances.....	9
5. Test results of the exercise.....	9
5.1 <i>Salmonella</i>	9
5.2 <i>Escherichia coli</i> (including O157)	12
5.3 <i>Listeria monocytogenes</i>	15
5.4 Aflatoxin B1	17
5.5 Melamine.....	19
5.6 Malathion.....	21
5.7 Lead.....	23
5.8 Arsenic.....	25
5.9 Overall Summary of the Test Results.....	29
References.....	29
Annexes	
Annex I.....	32
Annex II-VII.....	33
Annex VIII.....	39
Annex IX	53
Annex X	55
Annex XI	56

1. Introduction

This report aims to present the final testing results of the Pet Food Testing Exercise (“**Exercise**”) conducted by the **Eurofins Food Testing Hong Kong Limited** (“**Eurofins**”) for the **Agriculture, Fisheries and Conservation Department** (“**AFCD**”). This Exercise involved the testing and analysis of randomly selected pet food samples sold in Hong Kong market. Six rounds of testing with 60 samples in each round were conducted, totalling to 360 pet food samples tested in the Exercise.

2. Objective

2. Currently there is no legislation on the regulation of pet food products sold in Hong Kong. Although there have been no major incidents concerning the safety of pet food in Hong Kong in recent years, in order to assess whether the safety of pet food is a concern and consider whether the present measures on pet food products need to be enhanced, it is considered imperative to commission a study to survey and test pet food products available in the Hong Kong market. The objective of this Exercise is to gain a better understanding on the overall safety of pet food products sold in Hong Kong by sampling and testing pet food products available in the market.

3. Methodology

3.1 Market survey on pet food products sold in Hong Kong

3. In order to enable a realistic random sampling of pet food product for testing, it is necessary to first know what pet food products are available in Hong Kong retail market, then random selection could be conducted to select samples for testing. With **AFCD**’s agreement, **Eurofins** engaged a research consultancy company named Field Resources Consultant (Hong Kong) Limited (“**FRC**”) to conduct a market survey on the pet food products sold in Hong Kong. **Table 1** below shows the breakdowns of pet food stores **FRC** visited during the survey between January and March 2018.

Table 1: Pet food stores FRC visited during the market survey

Store Classification	Brand Name	Number of Stores Visited
Supermarket Chains	Wellcome	8
	PARKnSHOP	12
	China Resources	4
	AEON	3
	UNY	3
	Sub-total	30
Large Pet Chains <i>(Operating with 5 or more outlets)</i>	Q-PETs	3
	Pet Link	3
	Lego Pet	3
	Mega Pet	2
	Honey Pet Shop	2
	Red Carrot	2
	Sub-total	15
Small Pet Chains and Independent Stores <i>(Operating with 4 or less outlets)</i>		95
Grand Total		140

4. FRC identified 18,731¹ pet food products during the market survey, which corresponded to 5,915 different pet food **Stock Keeping Units**² (“SKU”) after removing the duplicate ones. Amongst the 5,915 pet food SKU, 3,391 SKU are for dog, 2,029 SKU are for cat, 302 SKU are for rabbit and rodent and 293 SKU are for birds³, which is shown in **Chart A**. The top 10 countries/regions of production⁴ of the 5,915 pet food SKU in descending order are: America/U.S.A. (1,407 SKU), Japan (1,267 SKU), Thailand (830 SKU), England (350 SKU), Canada (311 SKU), Germany (265 SKU), New Zealand (215 SKU), China (210 SKU), Europe (185 SKU), and Italy (157 SKU), which is shown in **Chart B**.

¹ This number is calculated by adding up the number of pet food products found in each surveyed store, and the pet food product sold in different stores could be repeated.

² Stock keeping unit refers to a distinct type of item for sale in a store.

³ As some pet food products are intended for more than one animal species (e.g. a canned food for both dog and cat), therefore the sum of the SKU for different animal species is larger than 5,915.

⁴ As shown on the package of the pet food products.

Chart A: Animal species of surveyed pet foods

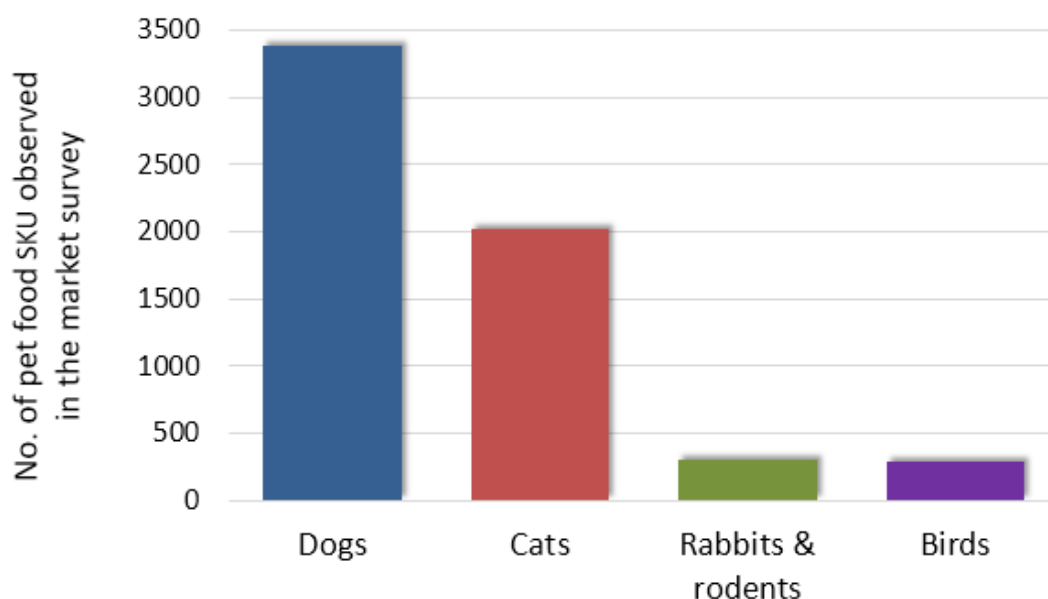
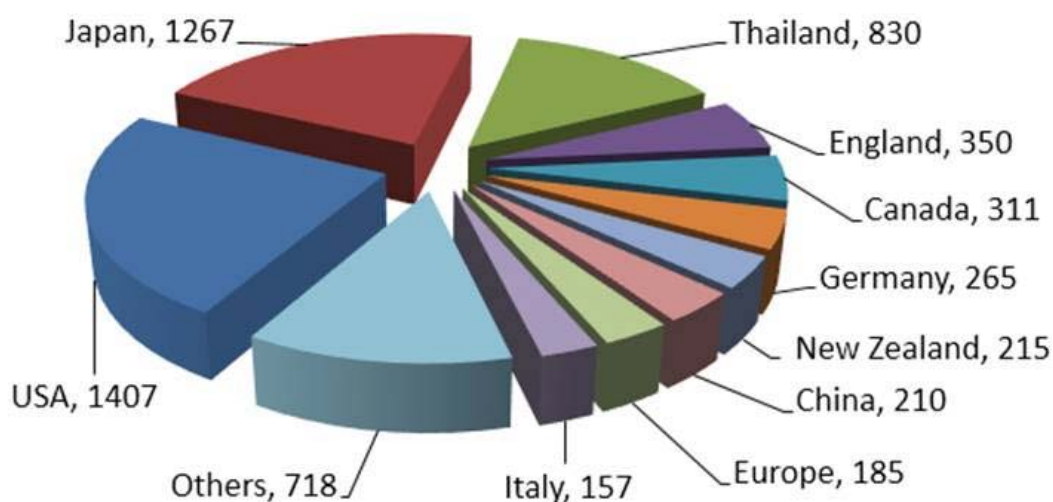


Chart B: Country of production of surveyed pet foods

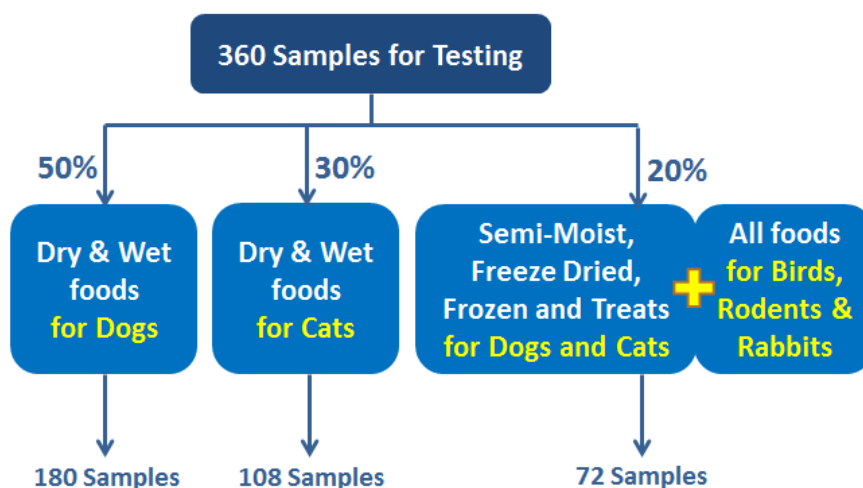


3.2 Allocation and selection of pet food samples for analysis

5. As required by AFCD, a total of 360 randomly selected pet food samples were tested by Eurofins in this testing exercise, of which 50% of the samples (i.e. 180 samples) were dry and wet foods for dogs; 30% of the samples (i.e. 108 samples) were

dry and wet foods for cats; and 20% of the samples (i.e. 72 samples) were semi-moist, freeze-dried, frozen foods and treats for dogs and cats, and foods for birds, rabbits and rodents. The numbers of samples tested in each sub-category are shown in **Table 2** below.

Table 2: Breakdowns of the 360 pet food samples for testing

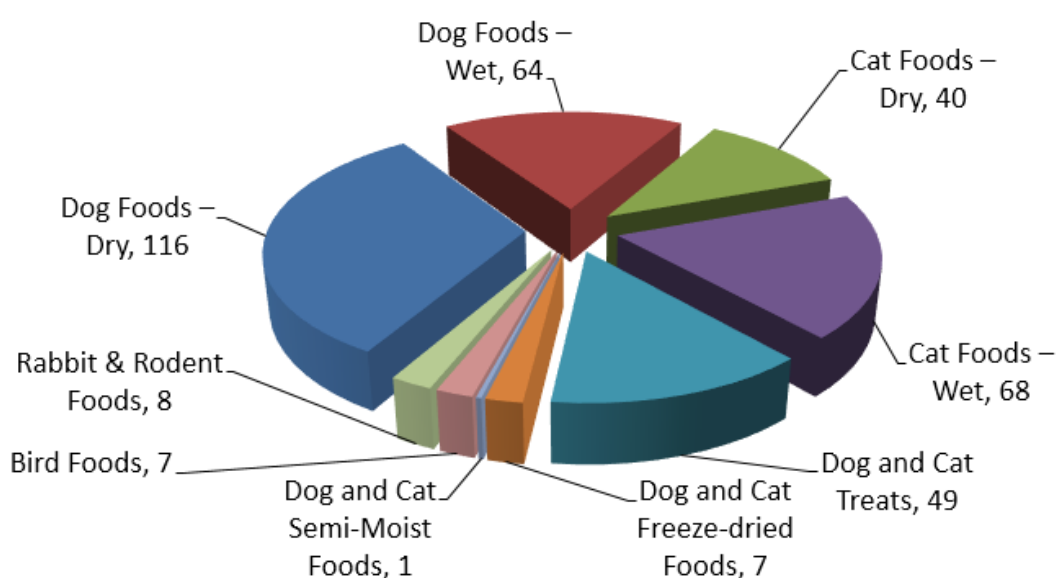


6. For sample allocation and selection, the pet food products found in the survey were categorised as follows:

- (a) Dry foods for dogs;
- (b) Wet foods for dogs;
- (c) Dry foods for cats;
- (d) Wet foods for cats;
- (e) Semi-moist foods for dogs and cats;
- (f) Freeze dried foods for dogs and cats;
- (g) Frozen foods for dogs and cats;
- (h) Treats for dogs and cats;
- (i) Foods for rabbits and rodents; and
- (j) Foods for birds.

Allocation of number of samples to each category

7. Subject to the breakdowns of the 360 samples mentioned in paragraph 5, the number of samples allocated for each of the categories were further determined based on their respective popularity found in the survey. For instance, 180 samples of dog dry and wet foods would need to be tested in the Exercise, and 1,035 dog dry food SKU and 575 dog wet food SKU were found in the survey, therefore the number of dog dry food samples tested in the testing exercise would be $\frac{1035}{(1035 + 575)} \times 180^5 = 116$; and number of dog wet food samples tested would be $\frac{575}{(1035+575)} \times 180 = 64$. The same principle was applied in determining the number of samples for the rest of the categories. The results of allocation are shown in **Chart C** below, and please refer to **Annex I** for details of the calculation for other categories.

Chart C: Allocation of the 360 pet food samples for testingSelection of pet food products in each category

8. In order to strike a balance between representativeness and impartiality when selecting pet food products for testing, an approach to randomly select samples based on brand popularity was adopted: Number of samples was first allocated for the top 10

⁵ As mentioned in paragraph 5, the testing exercise would test 180 samples of dry and wet food for dogs.

brands (based on popularity of their products) of each category and then randomly selected, then the remaining number of samples in each category was randomly selected.

9. To elaborate, the top 10 brands of each category⁶ were first determined based on the number of times each brand's products appeared in the survey, then number of samples allocated for the top 10 brands was calculated proportionally, and after calculation, the pet food products of each brand to be tested were randomly selected. For instance, 2,813⁷ dog dry food products were found in the survey and 296 of them belonged to the most popular brand, Brand A. The number of samples allocated for Brand A would be $\frac{296}{2813} \times 116 = 12$ samples, then 12 pet food products of Brand A would be randomly selected by **Eurofins**; and the same process was repeated for the remaining top 9 brands. After determining and selecting the number of samples for the top 10 brands, randomised selection was conducted to determine the pet food products to be tested for any remaining number of samples of each category, and only one pet food product would be selected at most for each remaining brand.

10. On the other hand, as the number of samples allocated for freeze-dried foods for dogs and cats, semi-moist foods for dogs and cats, foods for rabbits and rodent and foods for birds are less than 10, randomised selection was conducted directly by **Eurofins** for these categories. For details of sample selection, please refer to *Annexes II to VII*. The list of 360 randomly selected pet food products for testing is shown in *Annex VIII*.

4. Scope and methodology of testing

4.1 Scope of testing

11. In this Exercise, all samples selected were tested for eight commonly known microbes and harmful substances, which include *Escherichia coli* (including O157),

⁶ Except for freeze-dried foods for dogs and cats, semi-moist foods for dogs and cats, foods for rabbits and rodent and foods for birds. Please see paragraph 10 for explanation.

⁷ The number is inclusive of repeated pet food products.

***Salmonella*, *Listeria monocytogenes*, Aflatoxin B1, Melamine, Malathion, Lead and Arsenic (inorganic).**

4.2 Methodology of testing and reporting limits of substances

12. For details of the testing methods used in the Exercise and their reporting limits, please refer to ***Annex IX***. All testing methods of **Eurofins** are accredited under the **Deutsche Akkreditierungsstelle GmbH (“DAkkS”)** Accreditation Scheme for testing of feeding stuffs. DAkkS is one of the partners of Mutual Recognition Arrangement of the **Hong Kong Laboratory Accreditation Scheme**, which is under the **Hong Kong Accreditation Service** of the Innovation and Technology Commission of the Government of the Hong Kong S.A.R.

5. Test results of the exercise

13. The 360 randomly selected pet food samples were tested in 6 rounds during June 2018 to December 2019. References were made to the regulations of safety standards of pet food in other places / regions, which include the Mainland China, Taiwan, Japan and the European Union (“EU”), in determining the satisfactory standards for test results in the Exercise. While the safety standards for the eight testing items might slightly vary between these places / regions, the safety standards that are most commonly adopted by them are used as the satisfactory standards in this Exercise. An overview of the safety standards of the four places / regions can be found in ***Annex X***. A table summarising the test results of all tested samples can be found in ***Annex XI***. Information and brief summary of results of each testing item are set out in the following paragraphs.

5.1 *Salmonella*

5.1.1 Information about *Salmonella*

14. *Salmonella* is a bacterial pathogen which can cause severe illness and death in animals and humans. Pet foods contaminated with *Salmonella* are of particular public

health importance because these bacteria can affect the health of both humans and animals. Pets infected with *Salmonella* may become sick or asymptomatic carriers, and pass the bacteria to their human companions. People can get infected with *Salmonella* from handling contaminated pet foods and treats or even by touching surfaces that have had contact with the contaminated pet foods.

5.1.2 Regulations of safety standards of *Salmonella* in other places / regions

15. **Table 3** below summarises the regulations of *Salmonella* in pet foods among different places / regions. Based on these regulations, it is decided that *Salmonella* **should not be detected** in the sampled pet foods.

**Table 3: Regulations of *Salmonella* in pet foods
among different places / regions**

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Microbiological Contaminant, Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food [provisional translation]	<u>Provisional translation:</u> - No <i>Salmonella</i> shall be tested in 25 g of sample, applicable to complete feed (except canned food), complementary feed (except canned food), other pet food (except canned food) - Complete feed (canned food), complementary feed (canned food) and other pet food (canned food) shall be commercially sterile ⁸ .
<u>Japan</u> Article 7 of Act No. 83 of 2008 (Act on Ensuring the Safety of Pet Food) [provisional translation]	<u>Provisional translation:</u> The regulation prohibits manufacturers, importers, or sellers from manufacturing, importing, or selling the relevant pet food that are contaminated or suspected to be

⁸ Commercially sterile (商業無菌) means free of pathogenic microorganism, and non-pathogenic microorganism that could reproduce in room temperature.

Places / regions and reference of regulation	Safety standards
	contaminated with pathogenic microorganisms.
<u>Taiwan</u> Article 3 of the Standards for types and tolerance levels of pathogenic microorganisms and health-hazard materials in pet food	The following pathogenic microorganisms shall not be detected in pet food: 1. <i>Salmonella</i> 2. <i>Listeria monocytogenes</i> 3. Pathogenic <i>Escherichia coli</i> 4. <i>Clostridium perfringens</i>
<u>EU</u> Chapter II “Specific requirements for pet food, including dog chews”, Annex XIII, Commission Regulation (EU) No. 142/2011	For dog chews and processed pet food: <i>Salmonella</i> : absence in 25 g, n = 5, c = 0, m = 0, M = 0. ⁹

5.1.3 Test results of *Salmonella*

16. Among the 360 tested pet food samples, **all test results are as “Not Detected”** in 25g sample for *Salmonella*. The test results are summarised in **Table 4** below.

Table 4: Results of *Salmonella* in tested pet food samples

Pet food Category	No. of samples				
	Not Detected in 25g		Detected in 25g		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156
<i>Dry (Dogs)</i>	<i>116</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>116</i>
<i>Dry (Cats)</i>	<i>40</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>40</i>

⁹ **n** = number of samples to be tested; **m** = threshold value for the number of bacteria; the result shall be considered satisfactory if the number of bacteria in all samples does not exceed **m**; **M** = maximum value for the number of bacteria; the result shall be considered unsatisfactory if the number of bacteria in one or more samples is **M** or more; and **c** = number of samples the bacterial count of which may be between **m** and **M**, the sample shall still be considered acceptable if the bacterial count of the other samples is **m** or less.

Pet food Category	No. of samples				
	Not Detected in 25g		Detected in 25g		Total
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
<i>Wet (Dogs)</i>	64	100.00%	0	0.00%	64
<i>Wet (Cats)</i>	68	100.00%	0	0.00%	68
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	360	100.00%	0	0.00%	360

5.2 *Escherichia coli* (including O157)

5.2.1 Information about *Escherichia coli*

17. *Escherichia coli* (“*E. coli*”), belongs to the family *Enterobacteriaceae*, are mostly harmless bacteria that live in the guts of humans and animals and contribute to intestinal health. However, gastrointestinal illness may develop if food contaminated with certain types of *E. coli* is ingested. Some types of pathogenic *E. coli* can be particularly dangerous, for instance the *E. coli* O157 is one of the *Shiga toxin-producing E. coli* (“*STEC*”) which is of great health concern.

5.2.2 Regulations of safety standards of *Escherichia coli* in other places / regions

18. **Table 5** below summarises the regulations of *E. coli* in pet foods among different places / regions. Based on these regulations, it is decided that ***E. coli* should be tested with a level <10 colony forming unit per gram (“cfu/g”)¹⁰ and *E. coli* O157 should not be detected in the sampled pet foods.**

¹⁰ The lowest reporting limit of the testing method for *E. coli* in the Exercise is 10 cfu/g

Table 5: Regulations of *E. coli* in pet foods among different places / regions

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Microbiological Contaminant, Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food [provisional translation]	<u>Provisional translation:</u> Complete feed (canned food), complementary feed (canned food) and other pet food (canned food) shall be commercially sterile .
<u>Japan</u> Act No. 83 of 2008 (Act on Ensuring the Safety of Pet Food) Article 7 [provisional translation]	<u>Provisional translation:</u> The regulation prohibits manufacturers, importers, or sellers from manufacturing, importing, or selling the relevant pet food that are contaminated or suspected to be contaminated with pathogenic microorganisms .
<u>Taiwan</u> Article 3 of the Standards for types and tolerance levels of pathogenic microorganisms and health- hazard materials in pet food	The following pathogenic microorganisms shall not be detected in pet food: 1. <i>Salmonella</i> 2. <i>Listeria monocytogenes</i> 3. Pathogenic <i>Escherichia coli</i> 4. <i>Clostridium perfringens</i>
<u>EU</u> Chapter II “Specific requirements for pet food, including dog chews”, Annex XIII, Commission Regulation (EU) No. 142/2011	For dog chews and processed pet food: Enterobacteriaceae: n = 5, c = 2, m = 10, M = 300 in 1 g ¹¹

¹¹ **n** = number of samples to be tested; **m** = threshold value for the number of bacteria; the result shall be considered satisfactory if the number of bacteria in all samples does not exceed m; **M** = maximum value for the number of bacteria; the result shall be considered unsatisfactory if the number of bacteria in one or more samples is M or more; and **c** = number of samples the bacterial count of which may be between m and M, the sample shall still be considered acceptable if the bacterial count of the other samples is m or less.

5.2.3 Test results of *Escherichia coli*

19. Among the 360 tested pet food samples, all test results are reported as <10 cfu/g for *E. coli* and “Not Detected” in 25g sample for *E. coli* O157. The test results are summarised in *Table 6* and *Table 7* below.

Table 6: Results of *E. coli* in tested pet food samples

Pet food Category	No. of samples				
	< 10 cfu/g		≥10 cfu/g		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156
Dry (Dogs)	116	100.00%	0	0.00%	116
Dry (Cats)	40	100.00%	0	0.00%	40
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
Wet (Dogs)	64	100.00%	0	0.00%	64
Wet (Cats)	68	100.00%	0	0.00%	68
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	360	100.00%	0	0.00%	360

Table 7: Results of *Escherichia coli* O157 in tested pet food samples

Pet food Category	No. of samples				
	Not Detected in 25g		Detected in 25g		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156
Dry (Dogs)	116	100.00%	0	0.00%	116
Dry (Cats)	40	100.00%	0	0.00%	40
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
Wet (Dogs)	64	100.00%	0	0.00%	64
Wet (Cats)	68	100.00%	0	0.00%	68
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	360	100.00%	0	0.00%	360

5.3 *Listeria monocytogenes*

5.3.1 Information about *Listeria monocytogenes*

20. *Listeria monocytogenes* (“*L. monocytogenes*”) is a species of pathogenic bacteria which can be found in moist environments, soil, water, decaying vegetation, and animals. Similar to *Salmonella*, pet foods contaminated with *L. monocytogenes* are also of particular public health importance as it can cause severe illness and death in both humans and animals. Pets can also spread the bacteria in the home environment if they eat food contaminated with *L. monocytogenes*.

5.3.2 Regulations of safety standards of *L. monocytogenes* in other places / regions

21. **Table 8** summarises the regulations of *L. monocytogenes* in pet foods among different places / regions. Based on these regulations, it is decided that *L. monocytogenes* **should not be detected** in the sampled pet foods.

Table 8: Regulations of *L. monocytogenes* in pet foods among different places / regions

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food – Microbiological Contaminant [provisional translation]	<u>Provisional translation:</u> Complete feed (canned food), complementary feed (canned food) and other pet food (canned food) shall be commercially sterile .
<u>Japan</u> Act No. 83 of 2008 (Act on Ensuring the Safety of Pet Food) Article 7 [provisional translation]	<u>Provisional translation:</u> The regulation prohibits manufacturers, importers, or sellers from manufacturing, importing, or selling the relevant pet food that are contaminated or suspected to be contaminated with pathogenic microorganisms .

Places / regions and reference of regulation	Safety standards
<u>Taiwan</u> Article 3 of the Standards for types and tolerance levels of pathogenic microorganisms and health-hazard materials in pet food	The following pathogenic microorganisms shall not be detected in pet food: 1. <i>Salmonella</i> 2. <i>Listeria monocytogenes</i> 3. Pathogenic <i>Escherichia coli</i> 4. <i>Clostridium perfringens</i>
<u>EU</u> Chapter II “Specific requirements for pet food, including dog chews”, Annex XIII, Commission Regulation (EU) No. 142/2011	Not specified.

5.3.3 Test results of *Listeria monocytogenes*

22. Among the 360 tested pet food samples, **all test results are as “Not Detected”** in 25g sample for *L. monocytogenes*. The test results are summarised in **Table 9** below.

Table 9: Results of *L. monocytogenes* in tested pet food samples

Pet food Category	No. of samples				
	Not Detected in 25g		Detected in 25g		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156
<i>Dry (Dogs)</i>	<i>116</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>116</i>
<i>Dry (Cats)</i>	<i>40</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>40</i>
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
<i>Wet (Dogs)</i>	<i>64</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>64</i>
<i>Wet (Cats)</i>	<i>68</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>68</i>
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	360	100.00%	0	0.00%	360

5.4 Aflatoxin B1

5.4.1 Information about Aflatoxin B1

23. *Aflatoxins* are mycotoxins produced by two species of *Aspergillus*, a fungus found especially in places with hot and humid climates. *Aflatoxins* can be found in foods such as groundnuts, tree nuts, maize, rice and other dried foods as a result of fungal contamination before and after harvest. Several types of *Aflatoxins* are produced naturally, and **Aflatoxin B1** is the most common in foods and the most potent in terms of genotoxicity and carcinogenicity. Aflatoxins (B1, B2, G1, G2 and M1) are classified as “carcinogenic to humans” (Group 1) by the International Agency for Research on Cancer (“IARC”).

5.4.2 Regulations of safety standards of Aflatoxin B1 in other places / regions

24. **Table 10** summarises the regulations of *Aflatoxin B1* in pet foods among different places / regions. Based on these regulations, it is decided that the amount of *Aflatoxin B1* **should not be higher than 0.01 mg/kg at 12 % moisture content** for the sampled pet foods.

**Table 10: Regulations of Aflatoxin B1 in pet foods
among different places / regions**

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Mycotoxins, Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food [provisional translation]	<u>Provisional translation:</u> Complete feed, complementary feed and other pet food, at 88% dry matter content: 10 µg/kg (i.e. 0.01 mg/kg)
<u>Japan</u> Ministerial Ordinance on Specifications and Standards of Pet Food [provisional translation]	<u>Provisional translation:</u> Mycotoxin – Aflatoxin B1: 0.02 µg/g (i.e. 0.02 mg/kg) at 10% moisture content

Places / regions and reference of regulation	Safety standards
<u>Taiwan</u> Article 4 of Standards for types and tolerance levels of pathogenic microorganisms and health-hazard materials in pet food	Maximum content of aflatoxins ¹² in pet food is 20 ppb (i.e. 20 µg/kg, or 0.02mg/kg).
<u>EU</u> Annex I, Directive 2002/32/EC	Complementary and complete feed : 0.01 mg/kg at 12% moisture content

5.4.3 Test results of Aflatoxin B1

25. Among the 360 tested pet food samples, **no sample was tested with a level of Aflatoxin B1 higher than 0.01 mg/kg at 12% moisture content**. The test results are summarised in *Table 11* below.

Table 11: Results of Aflatoxin B1 at 12% MC in tested pet food samples

Pet food Category	No. of samples				
	≤ 0.01 mg/kg		> 0.01 mg/kg		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156
<i>Dry (Dogs)</i>	<i>116</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>116</i>
<i>Dry (Cats)</i>	<i>40</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>40</i>
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
<i>Wet (Dogs)</i>	<i>64</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>64</i>
<i>Wet (Cats)</i>	<i>68</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>68</i>
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15

¹² Content of aflatoxins means the total content of B1, B2, G1 and G2 aflatoxins under the regulation.

Pet food Category	No. of samples				
	≤ 0.01 mg/kg		> 0.01 mg/kg		Total
All	360	100.00%	0	0.00%	360

5.5 *Melamine*

5.5.1 Information about *Melamine*

26. *Melamine* and its derivatives are organic compound that has a wide range of application, such as binding agent and flame retardant, etc. It is usually reacted with other chemicals, mainly formaldehyde and urea, into a variety of high molecular weight resins and plastics that are intended to come into contact with foods. These include durable article such as cups, plates, kitchen utensils, protective coating inside of metal food cans, etc. Illegal adulteration of *Melamine* in pet food and infant formula had caused major food safety incidents in pets and humans in 2007 and 2008 respectively. Together with its related compounds such as cyanuric acid, *Melamine* can form crystals in urine and kidney tissue, which can lead to kidney failure in pets.

5.5.2 Regulations of safety standard of *Melamine* in other places / regions

27. **Table 12** summarises the regulations of *Melamine* in pet foods among different places / regions. It is noteworthy that in 2013 the EU announced that research revealed *Melamine*, used in the coating of pet food cans, can migrate into the pet food. In accordance with the European Food Safety Authority's ("EFSA") scientific opinion on *Melamine* in food and feed, a specific migration limit ("SML") of 2.5 mg/kg was set for canned food with the same coating. Such opinion had already established by relevant regulation on plastic materials and articles intended to come into contact with food (for human consumption), and was later expanded to canned pet food as well. The maximum level of *Melamine* in canned pet food was therefore amended to 2.5 mg/kg on an "as sold" basis (in relation to moisture content) in the EU regulation.

28. As such, it is decided that (i) except for canned food, the amount of *Melamine* **should not be higher than 2.5 mg/kg at 12 % moisture content** for the sampled pet foods; and (ii) the amount of *Melamine* in **canned pet food should not be higher than 2.5 mg/kg on the "as sold"** (in relation to moisture content) basis.

Table 12: Regulations of Melamine in pet foods
among different places / regions

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Inorganic contaminant and nitrogen containing compound, Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food [provisional translation]	<u>Provisional translation:</u> Complete feed, complementary feed and other pet food, at <u>88% dry matter content</u> : 2.5 mg/kg (Remarks: canned pet food with >60% moisture content should be measured “ <u>as sold</u> ”)
<u>Japan</u> Ministerial Ordinance on Specifications and Standards of Pet Food [provisional translation]	<u>Provisional translation:</u> Others - Melamine: 2.5 µg/g (i.e. 2.5 mg/kg) at 10% moisture content.
<u>Taiwan</u> Article 8 of Standards for types and tolerance levels of pathogenic microorganisms and health-hazard materials in pet food	Maximum content of health-hazard materials in pet food: 1. Melamine: 2.5 ppm (i.e. 2.5 mg/kg)
<u>EU</u> Annex I, Directive 2002/32/EC	Feed: 2.5 mg/kg at 12% moisture content Canned food: 2.5 mg/kg as sold

5.5.3 Test results of Melamine

29. Among the 360 tested pet food samples, **no sample was tested with a level of Melamine higher than the limit mentioned under paragraph 5.5.2.** The test results are summarised in *Table 13*.

Table 13: Results of Melamine in tested pet food samples

Pet food Category	No. of samples				
	≤ 2.5 mg/kg		> 2.5 mg/kg		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156
<i>Dry (Dogs)</i>	<i>116</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>116</i>
<i>Dry (Cats)</i>	<i>40</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>40</i>
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
<i>Wet (Dogs)</i>	<i>64</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>64</i>
<i>Wet (Cats)</i>	<i>68</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>68</i>
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	360	100.00%	0	0.00%	360

5.6 Malathion

5.6.1 Information about Malathion

30. *Malathion* is a broad-spectrum insecticide in the class of organophosphates and is widely used to control insects in agriculture and residential setting. It is applied to a wide variety of food and feed crops, including alfalfa, fruit, nuts, rice and wheat etc. It is also used as mosquito and fruit fly control. *Malathion* has low toxicity when ingested; but if exposed to toxic dose, both humans and animals will show clinical signs of the nervous system. *Malathion* is also classified by IARC as “probably carcinogenic to humans” (Group 2A).

5.6.2 Regulations of safety standard of *Malathion* in other places / regions

31. *Table 14* summarises the regulations of *Malathion* in pet foods among different places / regions. Based on these regulations, it is decided that the amount of *Malathion* **should not be higher than 10 mg/kg at 10 % moisture content** for the sampled pet foods.

**Table 14: Regulations of *Malathion* in pet foods
among different places / regions**

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food [provisional translation]	No limit is set for <i>Malathion</i> .
<u>Japan</u> Ministerial Ordinance on Specifications and Standards of Pet Food [provisional translation]	<u>Provisional translation:</u> Pesticides - Malathion: 10 µg/g (i.e. 10 mg/kg) at 10% moisture content.
<u>Taiwan</u> Standards for types and tolerance levels of pathogenic microorganisms and health-hazard materials in pet food	No limit is set for <i>Malathion</i> .
<u>EU</u> Annex I, Directive 2002/32/EC	No limit is set for <i>Malathion</i> .

5.6.3 Test results of *Malathion*

32. Among the 360 tested pet food samples, **no sample was tested with an amount of *Malathion* higher than 10 mg/kg at 10% moisture content**. The test results are summarised in *Table 15* below.

Table 15: Results of Malathion at 10% MC in tested pet food samples

Pet food Category	No. of samples				
	≤ 10 mg/kg		> 10 mg/kg		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156
<i>Dry (Dogs)</i>	<i>116</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>116</i>
<i>Dry (Cats)</i>	<i>40</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>40</i>
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
<i>Wet (Dogs)</i>	<i>64</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>64</i>
<i>Wet (Cats)</i>	<i>68</i>	<i>100.00%</i>	<i>0</i>	<i>0.00%</i>	<i>68</i>
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	360	100.00%	0	0.00%	360

5.7 Lead

5.7.1 Information about Lead

33. *Lead* is a toxic chemical element that occurs in the environment both naturally and from human activities, such as mining, smelting, use of leaded gasoline. It can deposit on the leafy part of the plant by polluted air, and aquatic animals can also accumulate *Lead* from contaminated waters, hence *Lead* can enter the food chain via contaminated food ingredients. *Lead* can accumulate in the body, so even low-level exposure can be hazardous over time. *Lead* is believed to have a negative impact on the brain and nervous system of humans and animals.

5.7.2 Regulations of safety standards of Lead in other places / regions

34. *Table 16* summarises the regulations of *Lead* in pet foods among different places / regions. Based on these regulations, it is decided the amount of *Lead* **should not be higher than 5 mg/kg at 12 % moisture content** for the sampled pet foods.

Table 16: Regulations of Lead in pet foods among different places / regions

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Inorganic contaminant and nitrogen containing compound, Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food [provisional translation]	<u>Provisional translation:</u> At 88% dry matter content: - Complete feed: 5 mg/kg - Complementary feed and other pet food: 10 mg/kg
<u>Japan</u> Ministerial Ordinance on Specifications and Standards of Pet Food [provisional translation]	<u>Provisional translation:</u> Heavy metals - Lead: 3 µg/g (i.e. 3 mg/kg) at 10% moisture content
<u>Taiwan</u> Article 5 of Standards for types and tolerance levels of pathogenic microorganisms and health-hazard materials in pet food	Maximum content of Heavy metals in pet food: 3. Lead: 5 ppm (i.e. 5 mg/kg).
<u>EU</u> Annex I of Directive 2002/32/EC	Complete feed: 5 mg/kg Complementary feed: 10 mg/kg At 12% moisture content for all of above.

5.7.3 Test results of Lead

35. Among the 360 tested pet food samples, **no sample was tested with an amount of Lead higher than 5 mg/kg at 12% moisture content**. The test results are summarised in *Table 17* below.

Table 17: Results of Lead at 12% MC in tested pet food samples

Pet food Category	No. of samples				
	≤ 5 mg/kg		> 5 mg/kg		Total
Dry (Dogs and Cats)	156	100.00%	0	0.00%	156

Pet food Category	No. of samples				
	≤ 5 mg/kg		> 5 mg/kg		Total
Dry (Dogs)	116	100.00%	0	0.00%	116
Dry (Cats)	40	100.00%	0	0.00%	40
Wet (Dogs and Cats)	132	100.00%	0	0.00%	132
Wet (Dogs)	64	100.00%	0	0.00%	64
Wet (Cats)	68	100.00%	0	0.00%	68
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	57	100.00%	0	0.00%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	360	100.00%	0	0.00%	360

5.8 Arsenic

5.8.1 Information about Arsenic

36. *Arsenic* is a chemical element which occurs both naturally and as a result of human activity. It is a metalloid that occurs in different inorganic and organic forms with diverse chemical characteristics. Inorganic and organic forms of *Arsenic* also differ significantly in their toxicity, with the inorganic *Arsenic* being highly toxic and the organic *Arsenic* compounds exhibiting a very low toxic potential.

37. Inorganic *Arsenic* is present in rocks and ores, and can be distributed to the environment via weathering and dissolution in water. Plants can accumulate *Arsenic* following uptake from the groundwater and soil via the roots and by absorption of airborne *Arsenic* deposited on the leaves. In the past, *Arsenic* insecticide, pesticides, fungicides and rodenticides had been used worldwide in agricultural production and wood preservation. *Arsenic* and inorganic *Arsenic* compounds are classified as “carcinogenic to humans” (Group 1) by the IARC.

38. Seafood and fish and feed materials that contain products of fish or marine organism have been identified as major source of *Arsenic* for humans and animals respectively. In seafood and fish, *Arsenic* is present mainly in the organic forms of arsenobetaine and arsenocholine. Organic *Arsenic* compounds including arsenocholine

and arsenobetaine are only toxic at very high dose, and organic arsenic compounds that are not metabolised in humans are classified as “not classifiable as to its carcinogenicity to humans” (Group 3) by the IARC.

5.8.2 Regulations of safety standards of *Arsenic* in other places / regions and testing arrangement

39. **Table 18** summarises the regulations of *Arsenic* in pet foods among different places / regions. Considering the different characteristics of inorganic and organic forms of *Arsenic* and also the regulations in other places / regions, it was decided that **inorganic *Arsenic* should be the focus of the Exercise and its level should not be higher than 2 mg/kg at 12% moisture content** for the sample pet food. However, the price of inorganic *Arsenic* test is much higher than the price of total *Arsenic* test¹³, so much so that the cost of the Exercise would increase considerably if all samples were tested for inorganic *Arsenic* directly. In order to enable detection of the inorganic *Arsenic* in the Exercise pragmatically and at a reasonable cost, a two tiered testing approach was adopted: all samples would be tested for total *Arsenic* first, and any sample that was tested with a level of **total *Arsenic* higher than 2 mg/kg at 12% moisture content** would be further tested for its level of inorganic *Arsenic*; the amount of **inorganic *Arsenic* in such samples should not be higher than 2 mg/kg at 12 % moisture content**.

Table 18: Regulations of *Arsenic* in pet foods among different places / regions

Places / regions and reference of regulation	Safety standards
<u>Mainland China</u> Inorganic contaminant and nitrogen containing compound, Appendix – Hygiene standard and testing method, Hygiene Regulation of Pet Food	<u>Provisional translation:</u> At 88% dry matter content: - Complete feed, complementary feed and other pet food that contains marine animal and its products or algae and algal products: total <i>Arsenic</i> 10 mg/kg, with inorganic <i>Arsenic</i> 2 mg/kg

¹³ Total *Arsenic* test refers to the testing of total *Arsenic* in a sample, which includes both organic and inorganic forms of *Arsenic*.

Places / regions and reference of regulation	Safety standards
[provisional translation]	<p>- Complete feed that does not contain marine animal and its products or algae and algal products: total Arsenic 2 mg/kg</p> <p>- complementary feed and other pet food that does not contain marine animal and its products or algae and algal products: total Arsenic 4 mg/kg</p>
<p><u>Japan</u></p> <p>Ministerial Ordinance on Specifications and Standards of Pet Food</p> <p>[provisional translation]</p>	<p><u>Provisional translation:</u></p> <p>Heavy metals - <i>Arsenic</i>: 15 µg/g (i.e. 15 mg/kg) at 10% moisture content</p>
<p><u>Taiwan</u></p> <p>Article 5 of Standards for types and tolerance levels of pathogenic microorganisms and health-hazard materials in pet food</p>	<p><i>Arsenic</i>:</p> <p>(1) Feed for pet animals containing aquatic animals, seaweed, and products derived thereof and/or meal: Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % is 10 ppm (i.e. 10 mg/kg) and inorganic <i>Arsenic</i> is lower than 2 ppm (i.e. 2 mg/kg).2. Others: 2 ppm (i.e. 2 mg/kg).</p> <p>(2) Others: 2ppm (i.e. 2 mg/kg)</p>
<p><u>EU</u></p> <p>Annex I of Directive 2002/32/EC</p>	<p>- Complete feed: 2 mg/kg total arsenic</p> <p>- Complete feed for pet animals containing fish, other aquatic animals and products derived thereof and/or seaweed meal and feed materials derived from seaweed: 10 mg/kg total Arsenic *</p> <p>- Complementary feed: 4 mg/kg total Arsenic</p> <p>- Complementary feed for pet animals containing fish, other aquatic animals and products derived thereof and/or seaweed meal and feed materials derived from seaweed: 10 mg/kg total Arsenic *</p>

Places / regions and reference of regulation	Safety standards
	* Upon request of the competent authorities, the responsible operator must perform an analysis to demonstrate that the content of inorganic Arsenic is lower than 2 ppm (i.e. 2 mg/kg).

5.8.3 Test results of Arsenic

40. Among the 360 tested pet food samples, 60 pet food samples were tested with a level of total *Arsenic* higher than 2 mg/kg at 12% moisture content. Subsequent testing for inorganic *Arsenic* was conducted for these 60 samples, and no sample was tested with level of inorganic *Arsenic* higher than 2 mg/kg at 12% moisture content. The test results are summarised in *Table 19* and *Table 20* below.

Table 19: Results of total Arsenic at 12% MC in tested pet food samples

Pet food Category	No. of samples				
	≤ 2 mg/kg		> 2 mg/kg		Total
Dry (Dogs and Cats)	152	97.44%	4	2.56%	156
<i>Dry (Dogs)</i>	<i>114</i>	<i>98.28%</i>	<i>2</i>	<i>1.72%</i>	<i>116</i>
<i>Dry (Cats)</i>	<i>38</i>	<i>95.00%</i>	<i>2</i>	<i>5.00%</i>	<i>40</i>
Wet (Dogs and Cats)	80	60.61%	52	39.39%	132
<i>Wet (Dogs)</i>	<i>53</i>	<i>82.81%</i>	<i>11</i>	<i>17.19%</i>	<i>64</i>
<i>Wet (Cats)</i>	<i>27</i>	<i>39.71%</i>	<i>41</i>	<i>60.29%</i>	<i>68</i>
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	53	92.98%	4	7.02%	57
Foods for birds, rodents and rabbits	15	100.00%	0	0.00%	15
All	300	83.33%	60	16.67%	360

Table 20: Results of inorganic Arsenic at 12% MC in tested pet food samples

Pet food Category	No. of samples				
	≤ 2 mg/kg		> 2 mg/kg		Total
Dry (Dogs and Cats)	4	100.00%	0	0.00%	4
<i>Dry (Dogs)</i>	2	100.00%	0	0.00%	2
<i>Dry (Cats)</i>	2	100.00%	0	0.00%	2
Wet (Dogs and Cats)	52	100.00%	0	0.00%	52
<i>Wet (Dogs)</i>	11	100.00%	0	0.00%	11
<i>Wet (Cats)</i>	41	100.00%	0	0.00%	41
Treat, Semi-Moist, Freeze-dried (Dogs and Cats)	4	100.00%	0	0.00%	4
Foods for birds, rodents and rabbits	0	--	0	--	0
All	60	100.00%	0	0.00%	60

5.9 Overall Summary of the Test Results

41. Among the 360 tested pet food samples, **no sample was tested with unsatisfactory result in relation to suggested standards of the eight microbes and harmful substances** specified in paragraph 4.1 above. Such test results generally reflect well on the overall safety of pet food products sold in Hong Kong market.

- END OF REPORT –

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Annex I – Allocation of number of samples for different categories of the Pet Food Testing Exercise

Category of pet food product	(i) Total number of samples for testing in the group	(ii) No. of SKU found in the survey	(iii) Calculation of number of sample to be tested	(iv) Number of products to be sampled in the category
1. Dry and wet foods for dogs	50% of 360 = 180	1610		
1a. Dog dry foods		1035	$\frac{1035}{(1035+575)} \times 180$	<u>116</u>
1b. Dog wet foods		575	$\frac{575}{(1035+575)} \times 180$	<u>64</u>
2. Dry and wet foods for cats	30% of 360 = 108	1482		
2a. Cat dry foods		551	$\frac{551}{(551+931)} \times 108$	<u>40</u>
2b. Cat wet foods		931	$\frac{931}{(551+931)} \times 108$	<u>68</u>
3. Freeze-dried, frozen, semi-moist and treats for dogs and cats, and foods for rodents & rabbits and birds	20% of 360 = 72	2880		
3a. Freeze-dried foods for dogs and cats		266	$\frac{266}{(266+13+26+1980+293+302)} \times 72$	<u>7</u>
3b. Frozen foods for dogs and cats		13	$\frac{13}{(266+13+26+1980+293+302)} \times 72$	<u>0</u>
3c. Semi-moist foods for dogs and cats		26	$\frac{26}{(266+13+26+1980+293+302)} \times 72$	<u>1</u>
3d. Treats for dogs and cats		1980	$\frac{1980}{(266+13+26+1980+293+302)} \times 72$	<u>49</u>
3e. Foods for birds (all types)		293	$\frac{293}{(266+13+26+1980+293+302)} \times 72$	<u>7</u>
3f. Foods for rabbits and rodents (all types)		302	$\frac{302}{(266+13+26+1980+293+302)} \times 72$	<u>8</u>

Annex II – Allocation of number of samples for dry foods for dogs

The following calculation is based on the fact that **2,813** dry foods for dogs were found in the survey, and **116** samples of dry foods for dogs were required to be tested in the Exercise:

#	(i) Top 10 brands of dry foods for dogs by popularity	(ii) No. of times its product appeared in the Survey	(iii) Calculation of number of samples to be tested	(iv) No. of samples for testing
1	Hills	296	$\frac{296}{2813} \times 116$	12
2	Royal Canin	285	$\frac{285}{2813} \times 116$	12
3	Grandma Mae's Country Naturals	89	$\frac{89}{2813} \times 116$	4
4	Fromm	88	$\frac{88}{2813} \times 116$	4
5	1st Choice	87	$\frac{87}{2813} \times 116$	4
6	Pronature	85	$\frac{85}{2813} \times 116$	4
7	Pedigree	83	$\frac{83}{2813} \times 116$	3
8	Zignature	80	$\frac{80}{2813} \times 116$	3
9	Wellness	77	$\frac{77}{2813} \times 116$	3
10	Purina	74	$\frac{74}{2813} \times 116$	3
	Total number of samples selected from the top 10 brands			52

Therefore, **52** samples of dry foods for dogs were collected from the top 10 brands, and the **64** samples were randomly selected from the remaining brands found in the survey, of which each selected brand only had one product randomly selected as sample at most.

Annex III – Allocation of number of samples for wet foods for dogs

The following calculation is based on the fact that 2,644 wet foods for dogs were found in the survey, and 64 samples of wet foods for dogs were required to be tested in the Exercise:

#	(i) Top 10 brands of wet foods for dogs by popularity	(ii) No. of times its product appeared in the Survey	(iii) Calculation of number of samples to be tested	(iv) No. of samples for testing
1	Kakato	699	$\frac{699}{2644} \times 64$	17
2	Cesar	527	$\frac{527}{2644} \times 64$	13
3	Monge	182	$\frac{182}{2644} \times 64$	4
4	Pedigree	115	$\frac{115}{2644} \times 64$	3
5	Applaws	90	$\frac{90}{2644} \times 64$	2
6	Gim Dog	83	$\frac{83}{2644} \times 64$	2
7	Butcher's	80	$\frac{80}{2644} \times 64$	2
8	Nutripe	74	$\frac{74}{2644} \times 64$	2
9	D.B.F	50	$\frac{50}{2644} \times 64$	1
10	Vitapet	48	$\frac{48}{2644} \times 64$	1
Total number of samples selected from the top 10 brands				47

Therefore, 47 samples of wet foods for dogs were collected from the top 10 brands, and the 17 samples were randomly selected from the remaining brands found in the survey, of which each selected brand only had one product randomly selected as sample at most.

Annex IV – Allocation of number of samples for dry foods for cats

The following calculation is based on the fact that 1,921 dry foods for cats were found in the survey, and 40 samples of dry foods for cats were required to be tested in the Exercise:

#	(i) Top 10 brands of dry foods for cats by popularity	(ii) No. of times its product appeared in the Survey	(iii) Calculation of number of samples to be tested	(iv) No. of samples for testing
1	Royal Canin	417	$\frac{417}{1921} \times 40$	9
2	Hills	171	$\frac{171}{1921} \times 40$	4
3	Purina	146	$\frac{146}{1921} \times 40$	3
4	1st Choice	113	$\frac{113}{1921} \times 40$	2
5	Pronature	113	$\frac{113}{1921} \times 40$	2
6	Whiskas	99	$\frac{99}{1921} \times 40$	2
7	Vigor and Sage	48	$\frac{48}{1921} \times 40$	1
8	Grandma Mae's Country Naturals	46	$\frac{46}{1921} \times 40$	1
9	Nutri Source	44	$\frac{44}{1921} \times 40$	1
10	Orijen	34	$\frac{34}{1921} \times 40$	1
10	Wellness	34	$\frac{34}{1921} \times 40$	1
Total number of samples selected from the top 10 brands				27

Therefore, 27 samples of dry foods for cats were collected from the top 10 brands, and the 13 samples were randomly selected from the remaining brands found in the survey, of which each selected brand only had one product randomly selected as sample at most.

Annex V – Allocation of number of samples for wet foods for cats

The following calculation is based on the fact that 4,410 wet foods for cats were found in the survey, and 68 samples of wet foods for cats were required to be tested in the Exercise:

#	(i) Top 10 brands of wet foods for cats by popularity	(ii) No. of times its product appeared in the Survey	(iii) Calculation of number of samples to be tested	(iv) No. of samples for testing
1	Kakato*	699	$\frac{699}{4410} \times 68$	N/A
2	Purina	590	$\frac{590}{4410} \times 68$	9
3	Whiskas	355	$\frac{355}{4410} \times 68$	5
4	Sheba	246	$\frac{246}{4410} \times 68$	4
5	日清	193	$\frac{193}{4410} \times 68$	3
6	Schesir	168	$\frac{168}{4410} \times 68$	3
7	Applaws	146	$\frac{146}{4410} \times 68$	2
8	Aixia	140	$\frac{140}{4410} \times 68$	2
9	Canagen	124	$\frac{124}{4410} \times 68$	2
10	Monge	112	$\frac{112}{4410} \times 68$	2
11	Almo Nature	107	$\frac{107}{4410} \times 68$	2
	Total number samples selected from the top 10 brands			34

Therefore, 34 samples of wet foods for cats were collected from the top 10 brands, and the 34 samples were randomly selected from the remaining brands found in the survey, of which each selected brand only had one product randomly selected as sample at most.

*As all wet food products of this Brand are for consumption by both dogs and cats, the products of this Brand had been included as wet foods for dogs (please refer to Annex III). To avoid duplication, this Brand was not considered as wet foods for cats in the context of sample allocation.

Annex VI – Allocation of number of samples for treats for dogs and cats

The following calculation is based on the fact that 5,678 treats for dogs and cats were found in the survey, and 49 samples of treats for dogs and cats were required to be tested in the Exercise:

#	(i) Top 10 brands of treats for dogs and cats by popularity	(ii) No. of times its product appeared in the Survey	(iii) Calculation of number of samples to be tested	(iv) No. of samples for testing
1	Doggyman	671	$\frac{671}{5678} \times 49$	6
2	Inaba	506	$\frac{506}{5678} \times 49$	4
3	Greenies	322	$\frac{322}{5678} \times 49$	3
4	Sunrise	294	$\frac{294}{5678} \times 49$	3
5	Whiskas	261	$\frac{261}{5678} \times 49$	2
6	Purina	252	$\frac{252}{5678} \times 49$	2
7	Zeal	230	$\frac{230}{5678} \times 49$	2
8	Cattyman	194	$\frac{194}{5678} \times 49$	2
9	Greedy Dog	123	$\frac{123}{5678} \times 49$	1
10	Gim Cat	112	$\frac{112}{5678} \times 49$	1
Total number of samples selected from the top 10 brands				26

Therefore, 26 samples of treats foods for dogs and cats were collected from the top 10 brands, and the 23 samples were randomly selected from the remaining brands found in the survey, of which each selected brand only had one product randomly selected as sample at most.

Annex VII – Allocation of number of samples for freeze-dried foods for dogs and cats, semi-moist foods for dogs and cats, foods for rabbits and rodents and foods for birds

As the required number of samples to be tested for (i) freeze-dried foods for dogs and cats, (ii) semi-moist foods for dogs and cats, (iii) foods for rabbits and rodents, and (iv) foods for birds are all less than 10, the top-10 popular brands approach would not be applicable to them. Randomised selection was conducted directly to select the samples to be tested in the Exercise. The number of samples tested in these categories were tabulated as follows:

Categories	Number of samples tested	Selection method
Freeze-dried foods for dogs and cats	7	Direct randomised selection
Semi-moist foods for dogs and cats	1	
Foods for rabbits and rodents	8	
Foods for birds	7	

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog	Dry	1St Choice	Senior 8+ Years Mature Or Less Active Toy And Small Breeds Chicken
Dog	Dry	1St Choice	Puppy 2-10 Months Toy And Small Breeds Chicken
Dog	Dry	1St Choice	Adult 10 Months - 8 Years Toy And Small Breeds Healthy Skin And Coat Lamb And Fish
Dog	Dry	1St Choice	Puppy 2-12 Months All Breeds Sensitive Skin And Coat Lamb, Fish And Brown Rice
Dog	Dry	2G	Diet Flakes
Dog	Dry	A La Carte	Lamb And Rice All Life Stages And Puppy
Dog	Dry	Aatu	Free Run Chicken
Dog	Dry	Addiction	Grain Free Le Lamb
Dog	Dry	Almo Nature	Adult Holistic Maintenance With Fresh Salmon
Dog	Dry	Arden Grange	Light with Fresh Chicken And Rice
Dog	Dry	Artemis	Fresh Mix Weight Management / Senior Dog
Dog	Dry	AvoDerm	Chicken Meal & Brown Rice Formula Adult Dog Food
Dog	Dry	Be My Baby	Whitefish And Sweet Potato
Dog	Dry	Black Hawk	Holistic Adult Formula Fish And Potato
Dog	Dry	Blackwood	All Life Stages Special Diet Sensitive Skin And Stomach Formula Lamb Meal And Brown Rice Recipe
Dog	Dry	Brit Care	Senior Lamb And Rice
Dog	Dry	Canagan	Grass-Fed Lamb
Dog	Dry	Canidae	All Life Stages Formulas Multi-Protein Formula Chicken, Turkey, Lamb And Fish Proteins
Dog	Dry	Castor & Pollux	Organix Small Breed Recipe
Dog	Dry	Cesar	Classic Lamb And Vine Tomato Flavour
Dog	Dry	Devoted	Grain Free Scottish Salmon
Dog	Dry	Evanger'S	Chicken and Brown Rice Recipe
Dog	Dry	First Class	Hypoallergenic Puppy Turkey And Rice
Dog	Dry	FirstMate	Australian Lamb Meal Formula
Dog	Dry	Fish4Dogs	Superior Adult Complete
Dog	Dry	Forest	Venison Formula All Breeds

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog	Dry	Fromm	Chicken A La Veg
Dog	Dry	Fromm	Salmon A La Veg
Dog	Dry	Fromm	Whitefish And Potato Formula Dog Food
Dog	Dry	Fromm	Duck And Sweet Potato Formula Dog Food
Dog	Dry	Golosi	Baby Mini 1-10Kg
Dog	Dry	Gosbi	Exclusive Chicken Mini
Dog	Dry	Grandma Mae'S Country Naturals	Grain Free Low Fat Recipe For Weight Control and Senior Dogs
Dog	Dry	Grandma Mae'S Country Naturals	Low Fat Entrée For Weight Control, Senior & Low Activity Dogs
Dog	Dry	Grandma Mae'S Country Naturals	Adult Dog Entrée
Dog	Dry	Grandma Mae'S Country Naturals	Pork & Fish Entrée All Life Stages
Dog	Dry	Hills	Science Diet Adult 7+ Small & Toy Breed Chicken Meal, Rice And Barley Recipe
Dog	Dry	Hills	Science Diet Adult 7+ Active Longevity Small Bites Chicken Meal, Rice And Barley Recipe
Dog	Dry	Hills	Science Diet Adult Oral Care Chicken Rice And Barley Recipe
Dog	Dry	Hills	Science Diet Puppy <1 Healthy Development Small Bites Chicken Meal And Barley
Dog	Dry	Hills	Science Diet Adult 1-6 Lamb Meal And Brown Rice Recipe
Dog	Dry	Hills	Science Diet Adult Perfect Weight Chicken Recipe
Dog	Dry	Hills	Ideal Balance Adult 1-6 Natural Chicken And Brown Rice Recipe
Dog	Dry	Hills	Science Diet Adult 1-6 Light Small Bites Chicken Meal And Barley
Dog	Dry	Hills	Science Diet Adult Sensitive Skin Rice And Egg Recipe
Dog	Dry	Hills	Prescription Diet Digestive Care i/d™ Low Fat
Dog	Dry	Hills	Prescription Diet Urinary Care c/d™ Multicare
Dog	Dry	Hills	Prescription Diet Skin/Food Sensitivities d/d™
Dog	Dry	Holistic Blend	My Healthy Pet Chicken, Rice & Vegetable All Life Stages Dog Formula
Dog	Dry	Holistic Select	Puppy Health Anchovy & Sardine And Chicken Meals Recipe
Dog	Dry	Instinct	Original Grain-Free Recipe With Real Chicken
Dog	Dry	Merrick	Grain Free Real Salmon + Sweet Potato Recipe

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog	Dry	Monge	Natural Superpremium Mini Adult Grain Free With Duck And Potatoes
Dog	Dry	Natural Balance	Limited Ingredient Diets Potato & Duck Formula
Dog	Dry	Natural Planet	Rabbit & Salmon Entree
Dog	Dry	Naturea	Think Nature Puppy Chicken With Apples, Carrots, Spinach, Blueberries, Cranberries, Herbs And Seaweeds
Dog	Dry	Nature'S Logic	Canine Duck & Salmon Meal Feast
Dog	Dry	Nature'S Protection	Extra Salmon
Dog	Dry	Nutram	Sound Balanced Wellness Chicken And Brown Rice
Dog	Dry	Nutri Source	Large Breed Puppy Chicken And Rice Formula
Dog	Dry	Nutrience	Original Adult Medium Breed Chicken Meal With Brown Rice Recipe
Dog	Dry	Nutro	Wholesome Essentials Adult Pasture-Fed Lamb & Rice Recipe
Dog	Dry	Optima Nova	Adult Digestive Rabbit And Potato
Dog	Dry	Organic Story	Sensitive Skin & Coat Fresh Salmon
Dog	Dry	Orijen	Six Fish
Dog	Dry	Oven Baked	Tradition Puppy Fresh Deboned Chicken
Dog	Dry	Pedigree	Adult complete nutrition Chicken And Vegetable Flavor
Dog	Dry	Pedigree	Adult complete nutrition Lamb And Vegetables Flavor
Dog	Dry	Pedigree	Adult Beef And Vegetable Flavor
Dog	Dry	Petcurean Now Fresh	Adult Fresh Turkey, Salmon & Duck
Dog	Dry	Petssion	Bond For Love Turkey And Duck
Dog	Dry	Planets	Chicken Crunch Large Breed
Dog	Dry	Prolife	Adult Mini 1-10 Kg Chicken And Rice
Dog	Dry	Pronature	Original 19 Senior 7+ Years Deluxe Recipe Chicken Formula
Dog	Dry	Pronature	Holistic Adult 1-7 Years All Breeds Indoor & Outdoor Turkey And Cranberries Formula
Dog	Dry	Pronature	Holistic Senior 7+ Years Senior All Breeds Oceanic White Fish & Wild Rice Formula
Dog	Dry	Pronature	Original 27 Puppy 2-12 Months Deluxe Recipe Chicken Formula
Dog	Dry	Purina	Pro Plan Small And Mini 1-10Kg Puppy Optilife

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog	Dry	Purina	Pro Plan Medium 10-25Kg Adult Optilife
Dog	Dry	Purina	Pro Plan All Size Adult Sensitive Skin And Stomach Optirestore
Dog	Dry	Rawz	Limited Recipe Wild Caught Salmon Recipe
Dog	Dry	Regal	Adult Bites Holistic Dog Food Turkey
Dog	Dry	Royal Canin	Breed Health Nutrition Adult over 10 months old Poodle
Dog	Dry	Royal Canin	Size Health Nutrition Medium Adult
Dog	Dry	Royal Canin	Size Health Nutrition Mini Adult 8+ Years
Dog	Dry	Royal Canin	Breeds Health Nutrition Adult Chihuahua
Dog	Dry	Royal Canin	Size Health Nutrition Mini Dermacomfort
Dog	Dry	Royal Canin	Size Health Nutrition X-Small Adult
Dog	Dry	Royal Canin	Size Health Nutrition Small Dogs Mini Sterilised
Dog	Dry	Royal Canin	Size Health Nutrition Large Dogs Maxi Adult
Dog	Dry	Royal Canin	Veterinary Diet® Diabetic DS37
Dog	Dry	Royal Canin	Veterinary Diet® Dental Special Small Dog under 10kg DSD25
Dog	Dry	Royal Canin	Veterinary Diet® Hypoallergenic DR21
Dog	Dry	Royal Canin	Size Health Nutrition Mini Aging
Dog	Dry	Schesir	Small Puppy MonoProtein With Chicken
Dog	Dry	Smack	7 歲以上柴犬用
Dog	Dry	Solid Gold	Holistique Blendz With Ocean Fish Meal With Oatmeal, Pearled Barley & Ocean Fish Meal
Dog	Dry	Supreme	Mini Chunks Dog Food
Dog	Dry	Sure Buy	Dog Food Chicken Flavored Adult Formula
Dog	Dry	Symply	Adult Turkey And Rice
Dog	Dry	Taste Of The Wild	Pacific Stream Puppy Formula With Smoked Salmon
Dog	Dry	Tribal	TLC Puppy Grain-Free Turkey Recipe For Puppies
Dog	Dry	Verus	Canine Advanced Opticoat For All Life All Life Stages Menhaden Fish Meal And Potato
Dog	Dry	Vigor And Sage	Regular Adult Dog Ginseng Well-Being Fresh Chicken & Green Tea

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog	Dry	Vitalin	Senior/Lite Dog Food Rich In Salmon And Potato
Dog	Dry	VitaPet	Adult Lamb And Rice Flavour
Dog	Dry	Wellness	Core Original Grain Free Protein-Rich Nutrition
Dog	Dry	Wellness	Complete Health Grain Free Adult Deboned Chicken & Chicken Meal Recipe
Dog	Dry	Wellness	Core Grain Free Reduced Fat Deboned Turkey, Turkey Meal and Chicken Meal Recipe
Dog	Dry	Wilderness	Nature's Evolutionary Diet With Chicken - Adult
Dog	Dry	Zeal	Beef Risotto
Dog	Dry	Zignature	Duck Formula
Dog	Dry	Zignature	Lamb Formula
Dog	Dry	Zignature	Turkey Formula
Dog	Dry	Zoe	Small Breed Petite Race Chicken, Quinoa & Black Bean Recipe
Dog	Dry	日清	Run 小型犬用狗糧野菜雞柳魚肉味
Dog	Wet	Almo Nature	Natural Tuna And Chicken
Dog	Wet	Applaws	Chicken Breast with Vegetable
Dog	Wet	Applaws	Chicken Mousse With Ham
Dog	Wet	Butcher'S	Light With Beef And Vegetable
Dog	Wet	Butcher'S	Life Junior With Lamb
Dog	Wet	Canagan	Turkey And Duck Dinner
Dog	Wet	Cesar	Lamb
Dog	Wet	Cesar	吞拿魚牛肉
Dog	Wet	Cesar	Chicken
Dog	Wet	Cesar	Chicken & Vegetables
Dog	Wet	Cesar	Beef & Liver
Dog	Wet	Cesar	精選牛肉
Dog	Wet	Cesar	Tender Lamb With Country Vegetables
Dog	Wet	Cesar	野菜羊仔肉

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog	Wet	Cesar	薯仔紅蘿蔔三文魚
Dog	Wet	Cesar	Chicken & Cheese
Dog	Wet	Cesar	Prime Beef With Vegetables
Dog	Wet	Cesar	Beef & Vegetables
Dog	Wet	Cesar	野菜牛肉雞肉
Dog	Wet	D.B.F.	雞胸肉粒
Dog	Wet	Gim Dog	Fruity Menu Ragout With Turkey, Apple And Vegetable
Dog	Wet	Gim Dog	Little Darling Pure Delight Tuna With Beef
Dog	Wet	Golosi	Bocconi Chicken And Turkey
Dog	Wet	Grandma Mae'S Country Naturals	Grain Free Chicken & Liver Dinner
Dog	Wet	Hills	Science Diet Youthful Vitality Adult 7+ Small And Toy Breeds Chicken And Vegetable Stew
Dog	Wet	Kakato	Chicken, Beef, Brown Rice & Vegetables
Dog	Wet	Kakato	Chicken & Beef Julienne
Dog	Wet	Kakato	Salmon & Tuna
Dog	Wet	Kakato	Tuna Fillet
Dog	Wet	Kakato	Chicken, Salmon & Vegetables
Dog	Wet	Kakato	Tuna & Prawn
Dog	Wet	Kakato	Chicken & Pumpkin
Dog	Wet	Kakato	Tuna & Chicken
Dog	Wet	Kakato	Tuna & Mackerel
Dog	Wet	Kakato	Tuna & Seaweed
Dog	Wet	Kakato	Salmon In Broth
Dog	Wet	Kakato	Tuna Mousse
Dog	Wet	Kakato	Chicken Mousse
Dog	Wet	Kakato	Chicken, Beef Liver And Vegetable
Dog	Wet	Kakato	Chicken And Vegetable

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog	Wet	Kakato	Chicken Fillet
Dog	Wet	Kakato	Tuna And Cheese
Dog	Wet	Lily'S Kitchen	Slow Cooked Lamb Hotpot
Dog	Wet	Little Big Paw	Chicken With Green Beans, Mixed Peppers And Sweet Potato In A Rich Herb Gravy
Dog	Wet	Marpet	Solo Anatra Duck
Dog	Wet	Monge	Pate And Chunkies With Lamb
Dog	Wet	Monge	Pate And Chunkies With Tuna
Dog	Wet	Monge	Pate And Chunkies With Chicken
Dog	Wet	Monge	Pate And Chunkies With Duck
Dog	Wet	Natural Planet	Organic Turkey Dinner
Dog	Wet	Naturea	Chicken With Tuna And Salmon
Dog	Wet	Nutripe	Classic Green Lamb Tripe
Dog	Wet	Nutripe	Classic Kangaroo And Green Tripe
Dog	Wet	Pedigree	Adult Chicken
Dog	Wet	Pedigree	Adult Beef
Dog	Wet	Pedigree	Chunks In Sauce With Beef
Dog	Wet	Prolife	Adult All Breeds Beef And Rice
Dog	Wet	Schesir	Chicken Fillet
Dog	Wet	Topvalu	Adult Dog Food Bestprice Chicken, Beef And Vegetable
Dog	Wet	Vitapet	Beef Flavor
Dog	Wet	Wanpy	Chicken
Dog	Wet	Wellness	Ninety-Five Percent Salmon
Dog	Wet	日清	美味時刻 高齡犬 雞肉牛肉
Dog	Wet	愛情物語	霧島雞雞粒成犬濕糧
Cat	Dry	1St Choice	Adult 1-10 Years Healthy Skin And Coat Salmon Formula
Cat	Dry	1St Choice	Adult 1+ Year Weight Control Chicken Formula

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Cat	Dry	Almo Nature	Adult Holistic Maintenance Fresh Chicken
Cat	Dry	Grandma Mae'S Country Naturals	Grain Free Salmon Meal Recipe For Cats & Kittens
Cat	Dry	Hills	Science Diet Adult 7+ Hairball Control Chicken Recipe
Cat	Dry	Hills	Science Diet Kitten <1 Healthy Development Chicken Recipe
Cat	Dry	Hills	Science Diet Adult 1-6 Hairball Control Chicken Recipe
Cat	Dry	Hills	Prescription Diet™ d/d™
Cat	Dry	Instinct	Original Grain-Free Recipe With Real Salmon
Cat	Dry	Kit Cat	Signature Salmon
Cat	Dry	Nutram	Ideal Solution Support Weight Control Chicken Meal And Pearled Barley Recipe
Cat	Dry	Nutri Source	Purevita Holistic Pet Foods Salmon & Peas Entree
Cat	Dry	Orijen	Six Fish
Cat	Dry	Oven Baked	Tradition Adult All Lifestyle Fresh Fish
Cat	Dry	Pronature	Holistic Kitten 2-12 Months Chicken & Sweet Potato Formula
Cat	Dry	Pronature	Holistic Adult 1-10 Years Indoor Skin & Coat Atlantic Salmon & Brown Rice Formula
Cat	Dry	Purina	Pro Plan Housecat Optirenal Healthy Kidneys Rich in Chicken
Cat	Dry	Purina	Pro Plan Adult Optirenal Healthy Kidneys Rich in Salmon
Cat	Dry	Purina	Pro Plan Derma Plus Optiderma Hairball Control Rich in Salmon
Cat	Dry	Regal	Cat Bites All Natural Cat Food Turkey
Cat	Dry	Royal Canin	Feline Breeds Nutrition Adult Persian
Cat	Dry	Royal Canin	Feline Health Nutrition Home Life Indoor 27
Cat	Dry	Royal Canin	Feline Health Nutrition Regular Sensible 33
Cat	Dry	Royal Canin	Feline Health Nutrition Regular Fit 32
Cat	Dry	Royal Canin	Feline Health Nutrition First Age Mother And Babycat
Cat	Dry	Royal Canin	Feline Health Nutrition Second Age Kitten
Cat	Dry	Royal Canin	Feline Breeds Nutrition Adult British Shorthair
Cat	Dry	Royal Canin	Veterinary Urinary S/O

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Cat	Dry	Royal Canin	Veterinary Diet® Diabetic DS46
Cat	Dry	Schesir	Adult With Fish
Cat	Dry	Smack	Tuna Flavor
Cat	Dry	Sure Buy	Cat Food Seafood Flavored Adult Formula
Cat	Dry	Taste Of The Wild	Canyon River Feline Recipe With Trout & Smoked Salmon
Cat	Dry	Vigor And Sage	Adult Cat Lotus Leaf Weight Control Fresh Turkey And Seaweed
Cat	Dry	Vitalin	Adult Cat British Chicken
Cat	Dry	Vitapet	Adult 1+ Years Seafood Flavor
Cat	Dry	Wellness	Complete Health Indoor Deboned Chicken & Chicken Meal Recipe
Cat	Dry	Whiskas	Adult 1+ Years Chicken Flavor
Cat	Dry	Whiskas	Adult 1+ Years Tuna Flavor
Cat	Dry	日清 Carat	去毛球吞拿魚雜錦
Cat	Wet	Aixia	純罐 吞拿魚及三文魚
Cat	Wet	Aixia	純罐 吞拿魚及鯉魚
Cat	Wet	Akane	吞拿魚 幼貓用
Cat	Wet	Akika	漁極金槍魚及石斑魚塊貓糧罐頭
Cat	Wet	Almo Nature	Tuna with shrimp
Cat	Wet	Almo Nature	Tuna with chicken
Cat	Wet	Applaws	Tuna Fillet With Seaweed
Cat	Wet	Applaws	Tuna Fillet With Prawn
Cat	Wet	Butcher'S	Classic Pro Series Skin And Coat With Chicken
Cat	Wet	Canagan	Ocean Tuna
Cat	Wet	Canagan	Chicken And Salmon 75g AO00844
Cat	Wet	Cat'S Agree	Premium Pilchard In Prawn Jelly
Cat	Wet	Cherie	Flaked Yellowfin Mix Skipjack Tuna With Wild Salmon Entrees In Gravy
Cat	Wet	Dr Pro	Tuna topping with mackerel meat

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Cat	Wet	First Class	Terrine Rind Beef
Cat	Wet	Five Star	Delight series Big Mackerel Tuna Whole Loin Flakes Topped Fresh Shrimp
Cat	Wet	Forest	Chicken in jelly
Cat	Wet	Gim Cat	Shiny Cat In Jelly Chicken With Papaya
Cat	Wet	Golosi	Beef Mousse + ginseng
Cat	Wet	Grandma Mae'S Country Naturals	Chicken & Liver Dinner for Cats & Kittens
Cat	Wet	Hills	Science Diet Adult Urinary Hairball Control Savory Chicken Entree
Cat	Wet	Kit Cat	Atlantic Tuna With Wild Salmon 400g AM03044
Cat	Wet	Little Big Paw	Hypoallergenic Complete Food For Cats Gourmet Tender Turkey Mousse
Cat	Wet	Marpet	Solo Anatra 100% Duck
Cat	Wet	MIO	嚴選吞拿魚白飯魚
Cat	Wet	Monge	Yellowfin tuna with salmon
Cat	Wet	Monge	Chicken With Pineapple
Cat	Wet	Natural Planet	Organic Turkey Dinner
Cat	Wet	Naturea	Tuna And Chicken
Cat	Wet	Original Taste	Original Recipe Series Tuna Whitemeat With Fresh Mackerel
Cat	Wet	Petsgoal	Salmon & Tuna in soup
Cat	Wet	Prolife	Adult Chicken And Rice
Cat	Wet	Purebites	100% Pure Chicken And Wild Tuna In Water For Cats
Cat	Wet	Purina	Mon Petit Gold Sea Bream
Cat	Wet	Purina	Mon Petit Gold Tuna With Crab Meat
Cat	Wet	Purina	Mon Petit Gold Flaked Tuna
Cat	Wet	Purina	Mon Petit Gold Tuna With Whitebait
Cat	Wet	Purina	Mon Petit Gourmet Turkey
Cat	Wet	Purina	Mon Petit Selection Gourmet Salmon
Cat	Wet	Purina	Mon Petit Grilled Tuna With Cheddar Cheese

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Cat	Wet	Purina	Mon Petit Grilled Chicken And Tomato
Cat	Wet	Purina	Mon Petit Gourmet Sole And Shrimp
Cat	Wet	Royal Canin	Feline Health Nutrition Digest Sensitive
Cat	Wet	Sajo	Tuna With Salmon
Cat	Wet	Schesir	Tuna With Ginseng
Cat	Wet	Schesir	Chicken Fillets With Shrimps
Cat	Wet	Schesir	Tuna And Chicken Fillets
Cat	Wet	Select	Seafood Basket In Jelly
Cat	Wet	Sheba	Flaked Tuna In Gravy
Cat	Wet	Sheba	Tuna And Salmon In Gravy
Cat	Wet	Sheba	Tuna With Shredded Crab
Cat	Wet	Sheba	Tuna Fillet In Jelly
Cat	Wet	Sure Buy	Cat Food With Seafood Platter
Cat	Wet	Tasty Prize	Chicken With Cheese In Jelly
Cat	Wet	Tiki Cat	Wild Salmon And Chicken
Cat	Wet	Top Cat	Sardines And Chicken In Aspic
Cat	Wet	Topvalu	Adult Cat Food Tuna, Bonito And White Fish
Cat	Wet	Vitapet	Seafood Flavor
Cat	Wet	Waitrose	Essential Chunks In Jelly With Chicken
Cat	Wet	Whiskas	Supreme Seafood Platter
Cat	Wet	Whiskas	Pouch - Tuna
Cat	Wet	Whiskas	Supreme Tuna Steak With Garden Vegetable In Gravy
Cat	Wet	Whiskas	Supreme Tuna Chunks With Prawns In Gravy
Cat	Wet	Whiskas	Supreme Tuna And Crab
Cat	Wet	三洋 小玉傳說	吞拿魚芝士花鰹魚
Cat	Wet	日清	Carat 懷石水煮 白吞拿魚雞肉

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Cat	Wet	日清	Carat 達人 鯉魚加鯉魚乾
Cat	Wet	日清	Carat 旬 吞拿魚加蟹柳
Dog/Cat	Treat	A Freschi Srl	Turkey Chews 火雞筋棒
Dog/Cat	Treat	Asuku	母情 Beef Jerky
Dog/Cat	Treat	Blue Seal	Lobster Bisque-It Flavor Medium Dog Biscuits
Dog/Cat	Treat	Cattyman	去毛球麥芽夾心香脆
Dog/Cat	Treat	Cattyman	去毛球三文魚夾心香脆
Dog/Cat	Treat	Darford	Oven-Baked Treats Grain Free Turkey Recipe
Dog/Cat	Treat	Doggyman	牛肉小方塊
Dog/Cat	Treat	Doggyman	小型軟牛筋條
Dog/Cat	Treat	Doggyman	乳酸菌芝士雞牛三文治條
Dog/Cat	Treat	Doggyman	雜菜芝士雞肉小方塊
Dog/Cat	Treat	Doggyman	芝士軟雞片
Dog/Cat	Treat	Doggyman	Hello 低鹽芝士野菜粒
Dog/Cat	Treat	Endi	Assorted Knotted Dental Bone Milk Mixed Chicken Flavor
Dog/Cat	Treat	Gim Cat	Nutri Pockets Taurine Beauty Mix
Dog/Cat	Treat	Gim Dog	Nutri Pockets Mix With Chicken
Dog/Cat	Treat	Greedy Dog	Healthy Bones Milk
Dog/Cat	Treat	Greenies	Dental Treats Original Petite 765g
Dog/Cat	Treat	Greenies	Feline Dental Treats Savory Salmon Flavor
Dog/Cat	Treat	Greenies	Feline Dental Treats Tempting Tuna Flavor
Dog/Cat	Treat	Hartz	Oinkies Pig Skin Twists Real Smoke Flavor 4pcs
Dog/Cat	Treat	Inaba	Ciao 肉醬包雞胸肉蟹肉味
Dog/Cat	Treat	Inaba	Ciao 雞肉鯉魚元貝醬
Dog/Cat	Treat	Inaba	Ciao 肉醬包綜合營養吞拿魚
Dog/Cat	Treat	Inaba	Ciao 肉醬包吞拿魚味

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog/Cat	Treat	Jerhigh	Carrot Stix
Dog/Cat	Treat	Marukan	Dog Plus Calcium Biscuits For Dogs
Dog/Cat	Treat	Milk Bone	Brushing Chews Daily Dental Treats
Dog/Cat	Treat	My Honey	Q 版軟雞片
Dog/Cat	Treat	Naturea	Chicken Heart
Dog/Cat	Treat	Okubo	Chicken Rib Fresh Sasami Jerky
Dog/Cat	Treat	Pedigree	Dentastix Green Tea Flavor 5 sticks
Dog/Cat	Treat	Purebites	Chicken Jerky Treats
Dog/Cat	Treat	Purina	Friskies Party Mix Crunch Original Chicken, Liver And Turkey
Dog/Cat	Treat	Purina	Beggin Strips with Bacon And Cheese Flavor
Dog/Cat	Treat	Select	Dog Wheat Biscuits
Dog/Cat	Treat	Smartbones	Vegetable and Chicken Dog Chews Made With Real Peanut Butter
Dog/Cat	Treat	Sunrise	Cube Shaped Cheese Snack For Dogs
Dog/Cat	Treat	Sunrise	Cube Shaped Vegetable Snack For Dogs
Dog/Cat	Treat	Sunrise	Baked Cheese Pie For Dogs
Dog/Cat	Treat	Whiskas	Temptations Tasty Chicken Flavor
Dog/Cat	Treat	Whiskas	Temptations Savory Salmon Flavor
Dog/Cat	Treat	Zeal	Venison Shanks
Dog/Cat	Treat	Zeal	Lamb Sticks
Dog/Cat	Treat	Ziwi Peak	New Zealand Lamb Recipe
Dog/Cat	Treat	北之極	免治鹿肉
Dog/Cat	Treat	北海道 venison	鹿肉條
Dog/Cat	Treat	北海道風味小食	硬雞條
Dog/Cat	Treat	安心	Lamb Jerky (stick type)
Dog/Cat	Treat	自然素材	羊肉飯條
Dog/Cat	Freeze Dried	K9 Natural	New Zealand Grass-Fed Lamb Feast

Annex VIII – List of pet food products tested in AFCD Pet Food Testing Exercise

Animal	Type	Pet Food Brand Name Shown	Pet Food Product Name Shown
Dog/Cat	Freeze Dried	Kiwi Kitchens	Wild Caught Fish Dinner
Dog/Cat	Freeze Dried	Northwest Naturals	Whitefish & Salmon Recipe
Dog/Cat	Freeze Dried	Primal	Freeze Dried Nuggets Beef Formula For Dogs
Dog/Cat	Freeze Dried	Rawz	Freeze Dried Nutrition Tasty Chicken Dinner
Dog/Cat	Freeze Dried	Stella & Chewy's	Chewy's Chicken Dinner Patties
Dog/Cat	Freeze Dried	Woof	Lamb
Dog/Cat	Semi-Moist	Naturea	The Healthy Treat - Fish Semi-Moist
Bird	N/A	Beaphar	XtraVital Grote Parkiet
Bird	N/A	Harrison's	High Potency Coarse
Bird	N/A	Higgins	VITA SEED Cockatiel
Bird	N/A	Roudybush	Maintenance Mini Bird Food
Bird	N/A	Versele-laga	Eggfood Dry Big Parakeets & Parrots
Bird	N/A	Witte Molen country	Valkparkiet Cockatiel Bird Food
Bird	N/A	安心	12 個蛋黃的營養
Rabbit / rodent	N/A	Adp	Chinchilla Formula Vitamin Plus 10%
Rabbit / rodent	N/A	Burgess	Excel Nuggets With Mint Guinea Pig
Rabbit / rodent	N/A	Cunipic	Hamster Complete Food
Rabbit / rodent	N/A	Gex	倉鼠雜菜營養糧
Rabbit / rodent	N/A	Kaytee	Fiesta Chinchilla Food
Rabbit / rodent	N/A	Marukan	倉鼠葵瓜子蔬菜營養糧
Rabbit / rodent	N/A	Oxbow	Essentials Hamster & Gerbil Food
Rabbit / rodent	N/A	Pet'S 88	Hamster Food With Seafood Flavor

Annex IX: Information of testing methods used in the AFCD Pet Food Testing Exercise

Testing item	Method	Method Description	Limit of reporting	Accreditation
<i>Salmonella</i>	US FDA BAM chapter 5	Sample is subjected to a pre-enrichment process, then streak on media plate. Suspected colonies are isolated, and a series of biochemical steps are conducted for confirmation and identification.	Report as Detected or Not Detected per 25g	DAkKS D-PL-19977-01-00 DAkKS D-PL-14292-01-00
<i>Escherichia coli</i>	AOAC 991.14	Sample is transferred onto a petrifilm which contains the media for <i>E.coli</i> growth. Colony of <i>E.coli</i> is then counted.	10 cfu/g	DAkKS D-PL-19977-01-00 DAkKS D-PL-14292-01-00
<i>Escherichia coli</i> O157	ISO 16654:2001	Sample is transferred to Immunomagnetic Separation (IMS) test kit after an enrichment process. Suspected colonies are isolated for confirmation and identification using latex kit.	Report as Detected or Not Detected per 25g	DAkKS D-PL-14292-01-00
<i>Listeria monocytogenes</i>	US FDA BAM chapter 10	Sample is subjected to a pre-enrichment process, then streak on media plate. Suspected colonies are isolated, and a series of biochemical steps are conducted for confirmation and identification.	Report as Detected or Not Detected per 25g	DAkKS D-PL-19977-01-00 DAkKS D-PL-14292-01-00
Aflatoxin B1	DIN EN 14123 mod.	Sample is extracted using methanol/water, followed by the cleanup with Immuno Affinity Column. Analysis is done by liquid-chromatography using fluorescence detector (LC-FLD).	0.001 mg/kg	DAkKS D-PL-14292-01-00
Melamine	FDA LIB No. 4421 mod.	Sample is extracted with acid. After centrifugation, sample is analyzed by liquid-chromatography tandem mass spectrometry (LC-MS/MS).	0.1 mg/kg	DAkKS D-PL-14292-01-00
Malathion	BS EN 15662:2008 & BS EN 15662:2018	Sample is extracted using acetonitrile, followed by solid phase extraction cleanup. Analysis is done by liquid-chromatography tandem mass spectrometry (LC-MS/MS).	0.01 mg/kg	DAkKS D-PL-14292-01-00
Lead	BS EN ISO 17294-2 2016 mod.	Sample is prepared by microwave acid digestion. Analysis is done by inductively coupled plasma mass spectrometry (ICP-MS).	0.05 mg/kg	DAkKS D-PL-14292-01-00

Annex IX: Information of testing methods used in the AFCD Pet Food Testing Exercise

Testing item	Method	Method Description	Limit of reporting	Accreditation
Arsenic	BS EN ISO 17294-2 2016 mod.	Sample is prepared by microwave acid digestion. Analysis is done by inductively coupled plasma mass spectrometry (ICP-MS).	Before: 0.05 mg/kg ^A After: 0.005 mg/kg ^B	DAkkS D-PL-14292-01-00
Inorganic Arsenic	§64 LFGB L 25.06-1 (2008-12), mod.	Sample is extracted with acid. Inorganic arsenic compounds form a volatile hydride in an acidic media with sodium borohydride. Sample is analyzed by hydride generation-atomic absorption spectroscopy (HG-AAS)	0.1 mg / kg	DAkkS D-PL-14602-01-00

^A Apply to analysis before Sep 2019.

^B Apply to analysis on or after Sep 2019. An improved lower reporting limit was implemented.

Annex X – Overview of safety standards on pet food in different places / regions

Places / regions Harmful substance, microbes	Mainland China	Japan	Taiwan	European Union
<i>Salmonella</i>	No <i>Salmonella</i> shall be tested in pet food. Canned pet food shall be commercially sterile.	Pathogenic organisms are prohibited in pet food.	<i>Salmonella</i> shall not be detected	<i>Salmonella</i> shall not be detected.
<i>E. coli</i>	Canned pet food shall be commercially sterile.	Pathogenic organisms are prohibited in pet food.	Pathogenic <i>E. coli</i> shall not be detected	For dog chews and processed petfood: <i>Enterobacteriaceae</i> : n = 5, c = 2, m = 10, M = 300 in 1 g*
<i>Listeria monocytogenes</i>	Canned pet food shall be commercially sterile.	Pathogenic organisms are prohibited in pet food.	<i>Listeria monocytogenes</i> shall not be detected	Not specified
Aflatoxin B1	10 µg/kg (i.e. 0.01 mg/kg) at 88% dry matter content	0.02 µg/g (i.e. 0.02 mg/kg) at 10% moisture content	20 ppb (i.e. 20 µg/kg, or 0.02mg/kg)	Complementary and complete feed : 0.01 mg/kg at 12% moisture content
Melamine	2.5 mg/kg at 88% dry matter content (Remarks: canned pet food with >60% moisture content should be measured “as sold”)	2.5 µg/g (i.e. 2.5 mg/kg) at 10% moisture content	2.5 ppm (i.e. 2.5 mg/kg)	(1)Feed: 2.5 mg/kg at 12% moisture content; and (2)Canned food: 2.5 kg/mg as sold
Malathion	Not specified	10 µg/g (i.e. 10 mg/kg) at 10% moisture content	Not specified	Not specified
Lead	(1) Complete feed: 5 mg/kg ; and (2) Complementary feed and other pet food: 10 mg/kg , both at 88% dry matter content	3 µg/g (i.e. 3 mg/kg) at 10% moisture content	5 ppm (i.e. 5 mg/kg).	(1) Complete feed: 5 mg/kg ; and (2) Complementary feed: 10 mg/kg , both at 12% moisture content
Arsenic	Complete feed, complementary feed and other pet food that contains marine animal and its products or algae and algal products: total Arsenic 10 mg/kg, with inorganic Arsenic 2 mg/kg , at 88% dry matter content.	15 µg/g (i.e. 15 mg/kg) at 10% moisture content	(1) Feed for pet animals containing aquatic animals, seaweed, and products derived thereof and/or meal: Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % is 10 ppm (i.e. 10 mg/kg) and inorganic <i>Arsenic</i> is lower than 2 ppm (i.e. 2 mg/kg). (2) Others: 2 ppm (i.e. 2 mg/kg). - Others: 2ppm (i.e. 2 mg/kg)	(1) Complete feed: 2 mg/kg total arsenic (2) Complete feed for pet animals containing fish, other aquatic animals and products derived thereof and/or seaweed meal and feed materials derived from seaweed : 10 mg/kg total Arsenic # (3) Complementary feed: 4 mg/kg total Arsenic (4) Complementary feed for pet animals containing fish, other aquatic animals and products derived thereof and/or seaweed meal and feed materials derived from seaweed : 10 mg/kg total Arsenic ²

* **n** = number of samples to be tested; **m** = threshold value for the number of bacteria; the result shall be considered satisfactory if the number of bacteria in all samples does not exceed m; **M** = maximum value for the number of bacteria; the result shall be considered unsatisfactory if the number of bacteria in one or more samples is M or more; and **c** = number of samples the bacterial count of which may be between m and M, the sample shall still be considered acceptable if the bacterial count of the other samples is m or less.

Upon request of the competent authorities, the responsible operator must perform an analysis to demonstrate that the content of **inorganic Arsenic** is lower than **2 ppm** (i.e. **2 mg/kg**).

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise**Notes:**

* denotes test results being calibrated to 12% moisture content.

denotes test results being calibrated to 12% moisture content, except for canned pet food samples.

@ denotes test results being calibrated to 10% moisture content.

^ denotes laboratory has improved the LOQ of arsenic from 0.05 to 0.005 mg/kg starting from 1 Sep 2019.

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
1.	1	Dog - Dry Food 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.29	0.17	-
2.	1	Dog - Dry Food 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.19	0.12	-
3.	1	Dog - Dry Food 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.40	0.86	-
4.	1	Dog - Dry Food 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.27	0.90	-
5.	1	Dog - Dry Food 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.56	0.32	-
6.	1	Dog - Dry Food 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.41	0.22	-
7.	1	Dog - Dry Food 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.27	0.20	-
8.	1	Dog - Dry Food 8	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.13	-
9.	1	Dog - Dry Food 9	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.20	0.36	-
10.	1	Dog - Dry Food 10	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.28	0.15	-
11.	1	Dog - Dry Food 11	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.94	0.54	-
12.	1	Dog - Dry Food 12	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.28	0.19	-
13.	1	Dog - Dry Food 13	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.49	2.29	<0.1
14.	1	Dog - Dry Food 14	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.13	0.38	-
15.	1	Dog - Dry Food 15	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.84	-
16.	1	Dog - Dry Food 16	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.23	1.18	-
17.	1	Dog - Dry Food 17	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.16	0.14	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
18.	1	Dog - Dry Food 18	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.70	0.26	-
19.	1	Dog - Dry Food 19	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	0.42	-
20.	1	Dog - Dry Food 20	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.26	-
21.	1	Dog - Dry Food 21	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.31	-
22.	1	Dog - Dry Food 22	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.19	0.13	-
23.	1	Dog - Dry Food 23	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.24	-
24.	1	Dog - Dry Food 24	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.22	0.55	-
25.	1	Dog - Dry Food 25	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.09	-
26.	1	Dog - Dry Food 26	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.25	-
27.	1	Dog - Dry Food 27	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.19	0.44	-
28.	1	Dog - Dry Food 28	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.31	<0.1
29.	1	Dog - Dry Food 29	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.41	0.18	-
30.	1	Dog - Dry Food 30	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.17	0.05	-
31.	1	Dog - Dry Food 31	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.22	0.26	-
32.	1	Dog - Dry Food 32	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.20	0.20	-
33.	1	Dog - Dry Food 33	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.22	0.26	-
34.	1	Dog - Dry Food 34	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.50	0.85	-
35.	1	Dog - Dry Food 35	Not Detected	<10	Not Detected	Not Detected	Not Detected	0.27	<LOQ	0.15	0.09	-
36.	1	Dog - Dry Food 36	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.16	0.05	-
37.	1	Dog - Dry Food 37	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	<0.05	-
38.	1	Dog - Dry Food 38	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.21	0.13	-
39.	1	Dog - Dry Food 39	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.27	0.06	-
40.	1	Dog - Dry Food 40	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.20	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
41.	1	Dog - Dry Food 41	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	0.41	-
42.	1	Dog - Dry Food 42	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	1.04	0.59	-
43.	1	Dog - Dry Food 43	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	1.31	-
44.	1	Dog - Dry Food 44	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.26	0.19	-
45.	1	Dog - Dry Food 45	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.08	-
46.	1	Dog - Dry Food 46	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.32	0.15	-
47.	1	Dog - Dry Food 47	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.18	0.22	-
48.	1	Dog - Dry Food 48	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.19	0.28	-
49.	1	Dog - Dry Food 49	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.57	-
50.	1	Dog - Dry Food 50	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	<0.05	-
51.	1	Dog - Dry Food 51	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	<0.05	-
52.	1	Dog - Dry Food 52	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.28	-
53.	1	Dog - Dry Food 53	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.17	-
54.	1	Dog - Dry Food 54	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.52	-
55.	1	Dog - Dry Food 55	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.32	-
56.	1	Dog - Dry Food 56	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	4.63	1.20	-
57.	1	Dog - Dry Food 57	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.16	0.11	-
58.	1	Dog - Dry Food 58	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.24	0.30	-
59.	1	Dog - Dry Food 59	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.15	0.26	-
60.	1	Dog - Dry Food 60	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.47	-
61.	2	Dog - Wet Food 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
62.	2	Dog - Wet Food 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
63.	2	Dog - Wet Food 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.12	<0.1

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
64.	2	Dog - Wet Food 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.32	<0.1
65.	2	Dog - Wet Food 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.23	-
66.	2	Dog - Wet Food 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.38	<0.1
67.	2	Dog - Wet Food 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
68.	2	Dog - Wet Food 8	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.97	<0.1
69.	2	Dog - Wet Food 9	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.79	<0.1
70.	2	Dog - Wet Food 10	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.43	<0.1
71.	2	Dog - Wet Food 11	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.47	-
72.	2	Dog - Wet Food 12	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.69	<0.1
73.	2	Dog - Wet Food 13	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
74.	2	Dog - Wet Food 14	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
75.	2	Dog - Wet Food 15	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
76.	2	Dog - Wet Food 16	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
77.	2	Dog - Wet Food 17	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
78.	2	Dog - Wet Food 18	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
79.	2	Dog - Wet Food 19	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
80.	2	Dog - Wet Food 20	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
81.	2	Dog - Wet Food 21	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
82.	2	Dog - Wet Food 22	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.47	<0.1
83.	2	Dog - Wet Food 23	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
84.	2	Dog - Wet Food 24	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
85.	2	Dog - Wet Food 25	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
86.	2	Dog - Wet Food 26	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
87.	2	Dog - Wet Food 27	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
88.	2	Dog - Wet Food 28	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
89.	2	Dog - Wet Food 29	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
90.	2	Dog - Wet Food 30	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.86	<0.1
91.	2	Dog - Wet Food 31	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
92.	2	Dog - Wet Food 32	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
93.	2	Dog - Wet Food 33	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
94.	2	Dog - Wet Food 34	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.73	<0.1
95.	2	Dog - Wet Food 35	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	0.073	<0.05	1.56	-
96.	2	Dog - Wet Food 36	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
97.	2	Dog - Wet Food 37	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
98.	2	Dog - Wet Food 38	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
99.	2	Dog - Wet Food 39	Not Detected	<10	Not Detected	Not Detected	Not Detected	1.42	<LOQ	<0.05	<0.05	-
100.	2	Dog - Wet Food 40	Not Detected	<10	Not Detected	Not Detected	Not Detected	1.69	<LOQ	<0.05	<0.05	-
101.	2	Dog - Wet Food 41	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
102.	2	Dog - Wet Food 42	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.67	-
103.	2	Dog - Wet Food 43	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
104.	2	Dog - Wet Food 44	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
105.	2	Dog - Wet Food 45	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
106.	2	Dog - Wet Food 46	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.43	-
107.	2	Dog - Wet Food 47	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
108.	2	Dog - Wet Food 48	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
109.	2	Dog - Wet Food 49	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
110.	2	Dog - Wet Food 50	Not Detected	<10	Not Detected	Not Detected	Not Detected	0.57	<LOQ	<0.05	<0.05	-
111.	2	Dog - Wet Food 51	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
112.	2	Dog - Wet Food 52	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
113.	2	Dog - Wet Food 53	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.38	-
114.	2	Dog - Wet Food 54	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.43	-
115.	2	Dog - Wet Food 55	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.37	-
116.	2	Dog - Wet Food 56	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
117.	2	Dog - Wet Food 57	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
118.	2	Dog - Wet Food 58	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.28	-
119.	2	Dog - Wet Food 59	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.30	-
120.	2	Dog - Wet Food 60	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
121.	3	Cat - Wet Food 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.60	<0.1
122.	3	Cat - Wet Food 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.13	<0.1
123.	3	Cat - Wet Food 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.60	<0.1
124.	3	Cat - Wet Food 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.83	<0.1
125.	3	Cat - Wet Food 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.59	-
126.	3	Cat - Wet Food 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.84	-
127.	3	Cat - Wet Food 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.45	-
128.	3	Cat - Wet Food 8	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
129.	3	Cat - Wet Food 9	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.68	<0.1
130.	3	Cat - Wet Food 10	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.31	4.89	<0.1
131.	3	Cat - Wet Food 11	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	9.50	<0.1
132.	3	Cat - Wet Food 12	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.55	<0.1

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
133.	3	Cat - Wet Food 13	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	5.13	<0.1
134.	3	Cat - Wet Food 14	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.91	<0.1
135.	3	Cat - Wet Food 15	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.97	<0.1
136.	3	Cat - Wet Food 16	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.13	<0.1
137.	3	Cat - Wet Food 17	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.87	<0.1
138.	3	Cat - Wet Food 18	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.33	-
139.	3	Cat - Wet Food 19	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.58	<0.1
140.	3	Cat - Wet Food 20	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
141.	3	Cat - Wet Food 21	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.58	<0.1
142.	3	Cat - Wet Food 22	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	8.01	<0.1
143.	3	Cat - Wet Food 23	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	7.20	<0.1
144.	3	Cat - Wet Food 24	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	5.51	<0.1
145.	3	Cat - Wet Food 25	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	7.18	<0.1
146.	3	Cat - Wet Food 26	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.66	<0.1
147.	3	Cat - Wet Food 27	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	5.58	<0.1
148.	3	Cat - Wet Food 28	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.01	<0.1
149.	3	Cat - Wet Food 29	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
150.	3	Cat - Wet Food 30	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.37	-
151.	3	Cat - Wet Food 31	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
152.	3	Cat - Wet Food 32	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.22	<0.1
153.	3	Cat - Wet Food 33	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	7.81	<0.1
154.	3	Cat - Wet Food 34	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
155.	3	Cat - Wet Food 35	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	5.60	<0.1

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
156.	3	Cat - Wet Food 36	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.87	-
157.	3	Cat - Wet Food 37	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.42	<0.1
158.	3	Cat - Wet Food 38	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.16	<0.1
159.	3	Cat - Wet Food 39	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
160.	3	Cat - Wet Food 40	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.12	-
161.	3	Cat - Wet Food 41	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.13	<0.1
162.	3	Cat - Wet Food 42	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.38	<0.1
163.	3	Cat - Wet Food 43	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.53	<0.1
164.	3	Cat - Wet Food 44	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.98	<0.1
165.	3	Cat - Wet Food 45	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	5.09	<0.1
166.	3	Cat - Wet Food 46	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	5.58	<0.1
167.	3	Cat - Wet Food 47	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
168.	3	Cat - Wet Food 48	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
169.	3	Cat - Wet Food 49	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.51	<0.1
170.	3	Cat - Wet Food 50	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
171.	3	Cat - Wet Food 51	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.94	-
172.	3	Cat - Wet Food 52	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
173.	3	Cat - Wet Food 53	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
174.	3	Cat - Wet Food 54	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
175.	3	Cat - Wet Food 55	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	5.39	<0.1
176.	3	Cat - Wet Food 56	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.75	<0.1
177.	3	Cat - Wet Food 57	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.25	<0.05	-
178.	3	Dog - Wet Food 61	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.60	<0.1

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
179.	3	Dog - Wet Food 62	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
180.	3	Dog - Wet Food 63	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
181.	4	Dog / Cat Treat 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
182.	4	Dog / Cat Treat 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
183.	4	Dog / Cat Treat 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
184.	4	Dog / Cat Treat 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
185.	4	Dog / Cat Treat 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
186.	4	Dog / Cat Treat 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
187.	4	Dog / Cat Treat 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	14.86	<0.1
188.	4	Dog / Cat Treat 8	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.61	-
189.	4	Dog / Cat Treat 9	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.63	-
190.	4	Dog / Cat Treat 10	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.58	<0.1
191.	4	Dog / Cat Treat 11	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.17	-
192.	4	Dog / Cat Treat 12	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.26	0.08	-
193.	4	Dog / Cat Treat 13	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.17	-
194.	4	Dog / Cat Treat 14	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
195.	4	Dog / Cat Treat 15	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.10	-
196.	4	Dog / Cat Treat 16	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
197.	4	Dog / Cat Treat 17	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
198.	4	Dog / Cat Treat 18	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
199.	4	Dog / Cat Treat 19	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.67	-
200.	4	Dog / Cat Treat 20	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	0.07	-
201.	4	Dog / Cat Treat 21	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	0.21	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
202.	4	Dog / Cat Treat 22	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.50	0.19	-
203.	4	Dog / Cat Treat 23	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
204.	4	Dog / Cat Treat 24	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
205.	4	Dog / Cat Treat 25	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
206.	4	Dog / Cat Treat 26	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
207.	4	Dog / Cat Treat 27	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	1.57	-
208.	4	Dog / Cat Treat 28	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	<0.05	-
209.	4	Dog / Cat Treat 29	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	<0.05	-
210.	4	Dog / Cat Treat 30	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.25	<0.05	-
211.	4	Dog / Cat Treat 31	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.09	-
212.	4	Dog / Cat Treat 32	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
213.	4	Dog / Cat Treat 33	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
214.	4	Dog / Cat Treat 34	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
215.	4	Dog / Cat Treat 35	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	<0.05	-
216.	4	Dog / Cat Treat 36	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
217.	4	Dog / Cat Treat 37	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
218.	4	Dog / Cat Treat 38	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
219.	4	Dog / Cat Treat 39	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
220.	4	Dog / Cat Treat 40	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
221.	4	Dog / Cat Treat 41	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
222.	4	Dog / Cat Treat 42	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	<0.05	-
223.	4	Dog / Cat Treat 43	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
224.	4	Dog / Cat Treat 44	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.12	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
225.	4	Dog / Cat Treat 45	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
226.	4	Dog / Cat Treat 46	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.68	-
227.	4	Dog / Cat Treat 47	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
228.	4	Dog / Cat Treat 48	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
229.	4	Dog / Cat Treat 49	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
230.	4	Cat - Wet Food 58	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
231.	4	Cat - Wet Food 59	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
232.	4	Cat - Wet Food 60	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	10.95	<0.1
233.	4	Cat - Wet Food 61	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.06	<0.1
234.	4	Cat - Wet Food 62	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
235.	4	Cat - Wet Food 63	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.88	-
236.	4	Cat - Wet Food 64	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	1.85	-
237.	4	Cat - Wet Food 65	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	7.04	<0.1
238.	4	Cat - Wet Food 66	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	6.88	<0.1
239.	4	Cat - Wet Food 67	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	4.60	<0.1
240.	4	Cat - Wet Food 68	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.05	-
241.	5	Dog - Dry Food 61	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	0.011	0.13	0.08	-
242.	5	Dog - Dry Food 62	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	0.079	0.08	0.06	-
243.	5	Dog - Dry Food 63	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.15	0.10	-
244.	5	Dog - Dry Food 64	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	0.06	-
245.	5	Dog - Dry Food 65	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.08	-
246.	5	Dog - Dry Food 66	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.08	-
247.	5	Dog - Dry Food 67	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.09	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
248.	5	Dog - Dry Food 68	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.13	0.11	-
249.	5	Dog - Dry Food 69	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	<0.05	-
250.	5	Dog - Dry Food 70	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.07	-
251.	5	Cat - Dry Food 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	0.017	0.06	<0.05	-
252.	5	Cat - Dry Food 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.20	-
253.	5	Cat - Dry Food 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.05	<0.05	-
254.	5	Cat - Dry Food 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.19	0.07	-
255.	5	Cat - Dry Food 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.12	0.10	-
256.	5	Cat - Dry Food 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.28	0.11	-
257.	5	Cat - Dry Food 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	0.014	0.07	0.07	-
258.	5	Cat - Dry Food 8	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.13	0.08	-
259.	5	Cat - Dry Food 9	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.22	0.14	-
260.	5	Cat - Dry Food 10	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.35	0.08	-
261.	5	Cat - Dry Food 11	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.41	0.67	-
262.	5	Cat - Dry Food 12	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.22	0.09	-
263.	5	Cat - Dry Food 13	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.13	0.50	-
264.	5	Cat - Dry Food 14	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.23	0.29	-
265.	5	Cat - Dry Food 15	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.37	-
266.	5	Cat - Dry Food 16	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.66	-
267.	5	Cat - Dry Food 17	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.09	-
268.	5	Cat - Dry Food 18	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.29	0.33	-
269.	5	Cat - Dry Food 19	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.84	-
270.	5	Cat - Dry Food 20	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.62	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
271.	5	Cat - Dry Food 21	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.71	-
272.	5	Cat - Dry Food 22	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.19	0.44	-
273.	5	Cat - Dry Food 23	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	3.57	<0.1
274.	5	Cat - Dry Food 24	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.21	0.25	-
275.	5	Cat - Dry Food 25	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.38	-
276.	5	Cat - Dry Food 26	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.42	-
277.	5	Cat - Dry Food 27	Not Detected	<10	Not Detected	Not Detected	0.00206	Not Detected	<LOQ	0.13	0.11	-
278.	5	Dog - Dry Food 71	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	<0.05	-
279.	5	Dog - Dry Food 72	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.10	-
280.	5	Dog - Dry Food 73	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.13	0.09	-
281.	5	Dog - Dry Food 74	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	0.11	-
282.	5	Dog - Dry Food 75	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.12	-
283.	5	Dog - Dry Food 76	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.16	0.49	-
284.	5	Dog - Dry Food 77	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	0.47	-
285.	5	Dog - Dry Food 78	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.34	0.18	-
286.	5	Dog - Dry Food 79	Not Detected	<10	Not Detected	Not Detected	0.00103	Not Detected	<LOQ	0.21	0.29	-
287.	5	Dog - Dry Food 80	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.07	-
288.	5	Dog - Dry Food 81	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.20	0.17	-
289.	5	Dog - Dry Food 82	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.16	0.25	-
290.	5	Dog - Dry Food 83	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.12	0.79	-
291.	5	Dog - Dry Food 84	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.17	-
292.	5	Dog - Dry Food 85	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.15	0.10	-
293.	5	Dog - Dry Food 86	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.26	0.31	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
294.	5	Dog - Dry Food 87	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.08	-
295.	5	Dog - Dry Food 88	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.20	0.05	-
296.	5	Dog - Dry Food 89	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.20	0.11	-
297.	5	Cat - Dry Food 28	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.10	-
298.	5	Cat - Dry Food 29	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.12	0.20	-
299.	5	Cat - Dry Food 30	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.26	-
300.	5	Cat - Dry Food 31	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.30	-
301.	6	Dog - Dry Food 90	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.15	-
302.	6	Dog - Dry Food 91	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.01	-
303.	6	Dog - Dry Food 92	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.44	-
304.	6	Dog - Dry Food 93	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.15	0.05	-
305.	6	Dog - Dry Food 94	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.06	-
306.	6	Dog - Dry Food 95	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.25	0.19	-
307.	6	Cat - Dry Food 32	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.03	-
308.	6	Cat - Dry Food 33	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.05	-
309.	6	Cat - Dry Food 34	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.03	-
310.	6	Cat - Dry Food 35	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.18	0.24	-
311.	6	Rabbit / Rodent Food 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.17	0.45	-
312.	6	Rabbit / Rodent Food 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.06	-
313.	6	Rabbit / Rodent Food 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.01	-
314.	6	Rabbit / Rodent Food 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.24	0.19	-
315.	6	Rabbit / Rodent Food 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.23	0.38	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
316.	6	Dog / Cat - Freeze Dried/Semi-moist Food 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.37	-
317.	6	Dog / Cat - Freeze Dried/Semi-moist Food 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.27	-
318.	6	Dog / Cat - Freeze Dried/Semi-moist Food 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.11	2.91	0.35
319.	6	Dog / Cat - Freeze Dried/Semi-moist Food 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.13	-
320.	6	Dog / Cat - Freeze Dried/Semi-moist Food 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	2.06	<0.1
321.	6	Dog / Cat - Freeze Dried/Semi-moist Food 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.26	-
322.	6	Dog - Wet Food 64	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	<0.005	-
323.	6	Cat - Dry Food 36	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.10	0.64	-
324.	6	Cat - Dry Food 37	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.16	-
325.	6	Cat - Dry Food 38	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.44	3.32	<0.1
326.	6	Cat - Dry Food 39	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.09	0.66	-
327.	6	Dog / Cat - Freeze Dried/Semi-moist Food 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.05	0.57	-
328.	6	Dog - Dry Food 96	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.46	0.44	-
329.	6	Dog - Dry Food 97	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.32	0.12	-
330.	6	Dog - Dry Food 98	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.50	0.98	-
331.	6	Dog - Dry Food 99	Not Detected	<10	Not Detected	Not Detected	0.00121	Not Detected	<LOQ	0.09	0.08	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
332.	6	Dog - Dry Food 100	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.85	-
333.	6	Dog - Dry Food 101	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.27	0.69	-
334.	6	Dog - Dry Food 102	Not Detected	<10	Not Detected	Not Detected	0.00308	Not Detected	<LOQ	0.08	0.22	-
335.	6	Dog - Dry Food 103	Not Detected	<10	Not Detected	Not Detected	0.00096	Not Detected	<LOQ	0.16	0.42	-
336.	6	Dog - Dry Food 104	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.18	0.17	-
337.	6	Dog - Dry Food 105	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.15	0.08	-
338.	6	Dog - Dry Food 106	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.32	0.37	-
339.	6	Dog - Dry Food 107	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.10	-
340.	6	Dog - Dry Food 108	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.12	-
341.	6	Dog - Dry Food 109	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.07	-
342.	6	Dog - Dry Food 110	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.05	-
343.	6	Dog - Dry Food 111	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.38	-
344.	6	Dog - Dry Food 112	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.14	0.54	-
345.	6	Dog - Dry Food 113	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	0.011	<0.05	0.10	-
346.	6	Dog - Dry Food 114	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.08	-
347.	6	Dog - Dry Food 115	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.85	1.57	-
348.	6	Dog / Cat - freeze dried/Semi-moist Food 8	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.73	-
349.	6	Cat - Dry Food 40	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.06	0.05	-
350.	6	Bird Food 1	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.13	-
351.	6	Bird Food 2	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.18	0.33	-
352.	6	Bird Food 3	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.10	-
353.	6	Bird Food 4	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	<0.05	0.04	-

Annex XI – Summary of test results of AFCD Pet Food Testing Exercise

#	Round	Sample Description	<i>Salmonella</i>	<i>E. coli</i>	<i>E. coli</i> O157	<i>L. monocytogenes</i>	Aflatoxin B1*	Melamine #	Malathion @	Lead *	Arsenic * ^	Inorganic Arsenic *
		Satisfactory Standards =>	Not Detected	<10 cfu/g	Not Detected	Not Detected	≤ 0.01 mg/kg	≤ 2.5 mg/kg	≤10mg/kg	≤ 5 mg/kg	≤ 2 mg/kg	≤2 mg/kg
354.	6	Bird Food 5	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.05	-
355.	6	Bird Food 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	0.017	0.10	0.05	-
356.	6	Bird Food 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.14	0.13	-
357.	6	Dog - Dry Food 116	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.04	-
358.	6	Rabbit / Rodent Food 6	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.08	0.10	-
359.	6	Rabbit / Rodent Food 7	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.07	0.12	-
360.	6	Rabbit / Rodent Food 8	Not Detected	<10	Not Detected	Not Detected	Not Detected	Not Detected	<LOQ	0.15	0.10	-