Activities as an OIE Collaborating Centre for Feed Safety

Norio AITA    FAMIC
OIE Collaborating Centre for Animal Feed Safety and Analysis, JAPAN
Contents

- Activities of FAMIC for Feed Safety
- Activities of FAMIC for OIE Collaborating Centre for Feed Safety and Analysis
Activities for Feed Safety
For Safety of Feeds

Law Concerning Safety Assurance and Quality Improvement of Feeds
(Law No.35 issued April 11, 1953)

Law for Ensuring the Safety of Pet Food
(Law issued June 11, 2008)
On-site inspection

System of Feed Safety

MAFF decide the standards and specification of feeds

Feeds which do not meet safety standards are not allowed to be manufactured, imported, sold, or used.

Imported feed materials
(Corn, wheat, fish meal, etc.)

On-site inspection

FAMIC
(Food and Agricultural Material Inspection Center)

Importers (port silo, warehouse)

Domestic feed materials
(Rice bran, soybean meal, etc.)

On-site inspection

Prefectural governments

Manufacturers (feed factory)

Dealers

Farmers

Safety foods of animal origin
On-site Inspection

Grains, Oil Cakes, Fish Meal, Pork & Chicken Meal, Etc.

☆ Checking Process, Records and Label for Feeds
☆ Sampling Feedstuff and Compound Feeds
Analysis of Feeds

Sampled Feedstuff and Compound Feeds

Laboratory Analysis

☆ Residual agricultural Chemicals
☆ Mycotoxins
☆ Heavy Metals
☆ Radioactive Caesium
☆ Antibiotic content
☆ Prohibited Animal Protein & DNA
☆ Non-approved GMO
☆ Salmonella
   Etc.
Develop or Improve Analysis Methods

MAFF

Request

FAMIC

Develop Analysis Method
Developed new Analysis Method

Collaborative Study
(FAMIC 6 Lab. + 0〜6 Lab.)

Check by Committee of Analytical Standards of Feed

Reported to MAFF

Analytical Standards of Feed
Antimicrobial Resistance Monitoring (Enterococcus)

MAFF
- Prefectural Government Livestock Hygiene Center
  - Sampling excrement at farm
  - Send samples
  - Research Body
  - Extract bacteria
  - Send bacteria
  - FAMIC
    - Research resistance of bacteria

NVAL
- Campylobacter
- E.coli
- JVARM
  - http://www.maff.go.jp/nval/
- Request Report
- Report

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Activities as an OIE Collaborating Centre for Animal Feed Safety and Analysis
OIE & FAMIC

Since May 25th, 2009

For Animal Feed Safety and Analysis
1st Activity as CC

OIE/FAO–APHCA Regional Workshop on Animal Feed Safety
“Feed Borne Disease Prevention”
Recommendations to CC

- Hazard information and monitoring results sharing
- Development of analysis methods for prioritized hazards in the region
- Hold a follow-up Workshop
Regional Short-term Training on Analysis of Mycotoxins in Feed (Concept note)

Time and Place:
For one week in December, 2013 (at the latest)
FAMIC, Saitama-city, Japan

Host: FAMIC, co-hosted by OIE

Expected applicant:
Laboratorians in member countries in Asia and the Pacific region.
Capacity is four participants.

Outline:
a) Determination of aflatoxins in maize by LC
b) Simultaneous determination of 11 mycotoxins in feed by LC/MS/MS
c) ELISA assay of deoxynivalenol in maize
d) Introduction of another analytical methods such as traditional, cheaper ones
Network for Feed Inspection Section

- We need information of Feed inspection section of each country.

Inspection section name?
Contact point?
Address?
E-mail address?

Please E-mail to: kantei2@nm.famic.go.jp
Developed, Validated or Improved Analysis Methods (1)

- Residual Agricultural Chemicals
- Mycotoxins
- Antibiotic content
- Prohibited Animal Protein & DNA
- Other harmful substances etc.
Developed, Validated or Improved Analysis Methods (2)

<Residual Agricultural Chemicals>

- Determination of Diuron in Feeds by LC/MS
- Determination of Spinosad in Feeds by LC/MS
- Determination of Chlorpyrifos-methyl, Pirimiphos-methyl and Malathion in Wet Type Pet Foods by GC–FPD
- Determination of Clothianidin, Dinotefuran and Thiamethoxam in Rice Straw for Feed by LC/MS/MS
- Determination of Carbaryl and 8 Pesticides in Rice Straw for Feed by LC/MS/MS etc.
Developed, Validated or Improved Analysis Methods (2)

<Mycotoxin>
- Collaborative Study of Determination of Aflatoxin B1, B2, G1 and G2 in Wet Type Pet Foods by LC–FL
- Determination of Deoxynivalenol in Dry and Wet type Pet Foods by LC/MS/MS etc.

<Antibiotic Content>
- Improved Determination Method of Morantel Citrate in Formula Feeds by LC
- Improved Biological determination of Avilamycin in Formula Feeds for Avian
Developed, Validated or Improved Analysis Methods (3)

〈Prohibited Animal Protein & DNA〉

- PCR–RFLP Identification of Prohibited Animal–derived DNA in Animal Feeds
- Assessment of Morinaga ELISA Kit Ver.2 Detectiong Bovine Protein in Feeds

〈Other Harmful Substances〉

- Determination of Melamine in Feeds by LC/MS/MS
- Improved Determination of Lolitrem B in Ryegrass by LC
- Determination of Crystal violet and Methylene blue in Feeds by LC/MS/MS etc.
Supplying Information

- Results of the monitoring of feed ingredients in Japan
- Hazard card for important hazards in animal feed
- Analytical Standards of feed in Japan

Up to FAMIC’s Home Page
FAMIC Home Page


Click

Go to “FAMIC’s OIE Collaborating Centre Page”
OIE Collaborating Centre Page (in Japanese)

Click “here”

Go to “English Page”
OIE Collaborating Centre Page (in English)

Click “Information”

Go to “Feed Safety and Analysis Page”
Results of the monitoring of feed ingredients in Japan

Research Report of Animal Feed (abstract or title only)

Hazard card for important hazards in animal feed

Analytical Standards of feed in Japan
Participated International Meetings in 2011

- OIE Lecture Meeting “The Veterinary Profession: Is Growing Roles and Responsibilities” (Tokyo, Japan)
- “BIT 1st Annual World Congress of Agricultural Biotechnology” (Changchun, China)
Training to Personnel from OIE Member Countries (2011)

Cambodia, China, Indonesia, Iran, Jordan, Kenya, Kyrgyz Republic, Mongolia, Myanmar, Nicaragua, Philippines, Sri Lanka, Vietnam, Zambia
Thank you for listening.