

#### 8.6. Use and restrictions of the documents of proof.

The documents of proof must always be shown when it is so required by the official personnel.

The documents of proof that come with shipments of birds, avian products or by-products, may be photocopies of the original document of proof provided that they are validated with the seal and signature of the official veterinary doctor or the one approved for the Campaign against Newcastle Disease.

### 9. IMMUNIZATION

9.1. Vaccines should be handled under the strictest of conservation methods for biologicals, maintaining the cold-chain; this shall be the shared responsibility of owners and official or approved veterinary doctors, enterprises that produce or sell the biologicals, as well as those others the Ministry so determines.

9.2. In zones enzootic to the disease, lyophilized, and emulsified vaccines against the said disease are obligatory.

9.3. In eradication or free zones, only live vaccines with lentogenic and inactivated strains can be used.

9.4. The Ministry may request from the owners or the bird handler, a vaccination program that is in accord with the epidemiological situation of ND, and in accordance to the geographical location of the avian facilities.

9.5. The Avian Promotion Centers in the country must use the ND emulsified vaccine.

9.6. For the production of live ND vaccines, classified lentogenic strains must be used.

### 10. QUARANTINE MEASURES

10.1. The production units, may be subjected to quarantine measures in the following circumstances:

- Precautionary quarantine when there is a suspected VND outbreak.
- Definite quarantine when an outbreak is confirmed by the isolation of a velogenic strain of ND virus.

10.2. The application or lifting of quarantine measures, must be officially notified by the Ministry, indicating the following information:

- The reason;
- The movement restrictions; and
- The applicable animal sanitary measures.

## 11. COMPENSATION

11.1. The Ministry shall coordinate with the state governments, producers and other persons related to the avian production, compensation mechanisms, in money or in kind, in order to allow the elimination of an outbreak, without injuring economically the producer.

## 12. MOVEMENT

12.1. The Animal Sanitary Certificate shall be required for the movement of birds in all the national territory, taking into account the zones of origin and destination, reason for the movement and the requisites that shall be as follows:

12.1.1. ORIGIN: Control and in eradication zone  
DESTINATION: Control zone

REASON OF MOVEMENT	REQUISITES
a) Breeders, replacements, broilers and slaughter birds.	- None
b) Fighting cocks, birds for fairs, exhibitions, of song, ornament and wild fowl	- None

12.1.2. ORIGIN: Control zone  
DESTINATION: Free or in eradication zone

REASON OF MOVEMENT	REQUISITES
a) Breeders, replacements, broilers under 3 days of age.	- Document of proof of origin VND free
b) Breeders, replacements, broilers more than 3 days of age.	- Document of proof of VND free flock or farm

- |  |  |
|--|--|
| c) Fighting cocks, birds for fairs, exhibitions, of song, ornament and wild fowl | - Document of proof of VND free flock, farm or enterprise                  |
| d) Wild fowl and other domesticated fowl not considered in the preceding points  | - Shall be determined in each case by the respective Federal State Agency. |

12.1.3. ORIGIN: Eradication zone  
DESTINATION: Free or in eradication zone

REASON OF MOVEMENT	REQUISITES
a) Breeders, replacements, broilers under 3 days of age.	- Document of proof of origin VND free
b) Breeders, replacements, broilers more than 3 days of age.	- Document of proof of VND free flock or farm
c) Fighting cocks, birds for fairs, exhibitions, of song, ornament and wild fowl	- Document of proof of VND free flock, farm or enterprise
d) Wild fowl and other domesticated fowl not considered in the preceding points	- Shall be determined in each case by the respective Federal State Agency.

12.1.4. ORIGIN: Free zone  
DESTINATION: Control zone

REASON OF MOVEMENT	REQUISITES
a) Breeders, replacements, broilers and slaughter birds.	- None

- b) Fighting cocks, birds for fairs, exhibitions, of song, ornament and wild fowl - None
- c) Wild fowl and other domesticated fowl not considered in the preceding points - Shall be determined in each case by the respective Federal State Agency.

12.1.5. The birds for fighting, fairs, exhibitions, song and ornament as referred to in the points 12.1.1., 12.1.2., 12.1.3., and 12.1.4., will not lose their place of origin if they do not remain more than 30 days at their place of destination; so that they can return to their place of origin, showing their document of proof of VND free flock, farm or bird, except for those birds whose origin is in free states, then they shall only show their Animal Sanitary Certificate.

12.2. The movement of avian products shall be regulated in all the national territory taking into account the zone of origin, and destination, the reason for the movement and the requisites that are hereunder stated:

12.2.1. ORIGIN: Control and in eradication zone  
DESTINATION: Control zone

REASON OF MOVEMENT	REQUISITES
a) Fertile or table eggs:	- None
b) Meat and eggs for industrial purposes	- None
c) Meat in carcasses or pieces thereof:	- None
d) Salted meat:	- Meat must be covered by a thin layer of NaCl grains or powder up to 10% of the weight of the meat, or remains and presented in separate individual parts or fractions.

- |                              |  |
|------------------------------|--|
| f) Meat or remains in brine: | - Impregnated in a 10% saturated solution of water and NaCl. |
| f) Sausages                  | - None   |
| h) Canned products           | - Sterile  |

12.2.2. ORIGIN: Control and in eradication zone  
DESTINATION: Free or in eradication zone

REASON OF MOVEMENT	REQUISITES
a) Fertile eggs:	- Document of proof VND free flock
b) Table eggs:	- Document of proof VND free farm
c) Meat and eggs for industrial purposes:	- Document of proof of VND free flock or farm; or previously cooked during 10 min. at 60°C or gamma irradiated, or pasteurized.
c) Meat in carcasses or pieces thereof:	- Document of proof of VND free flock or farm.
e) Salted meat:	- Document of proof of VND free flock or farm.  - Meat must be covered by a thin layer of NaCL grains or powder up to 10% of the weight of the meat, or remains and presented in separate individual parts or fractions.
f) Meat or remains in brine:	- Document of proof of VND free flock or farm.  - Impregnated in a 10%

- |  |   |
|--|---|
|  | saturated solution of water and NaCl.   |
| f) Sausages<br>previously cooked during irradiated, or | - Document of proof of VND free flock or farm, or 10 min. at 60°C or gamma pasteurized. |
| h) Canned products                                     | - Sterile   |

## 12.2.3. ORIGIN: Free zone

DESTINATION: Free, in eradication or control zone

REASON OF MOVEMENT	REQUISITES
a) Fertile or table eggs or for industrial use	- None
b) Meat in carcasses or pieces thereof:	- None
d) Salted meat:	- Meat must be covered by a thin layer of NaCl grains or powder up to 10% of the weight of the meat, or remains and presented in separate individual parts or fractions.
f) Meat or remains in brine:	- Impregnated in a 10% saturated solution of water and NaCl.
f) Sausages	- None
h) Canned products	- Sterile

1.3.1. ORIGIN: Control and in eradication zone:  
 DESTINATION: Control zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- None

12.3.2. ORIGIN: Control or in eradication zone:  
 DESTINATION: Free or in eradication zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- Movement prohibited

12.3.3. ORIGIN: In eradication zone:  
 DESTINATION: Free zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- Movement prohibited

12.3.4. ORIGIN: Free zone:  
 DESTINATION: Free, in eradication or control zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- None

12.4. The movement of avian equipments shall be regulated in all the national territory taking into consideration the zone of origin and destination, reasons for the movement and requisites as hereunder stated:

12.4.1. ORIGIN: Control or in eradication zone:  
 DESTINATION: Control zone:

REASON FOR MOVEMENT	REQUISITES
a) Chick boxes, or egg cartons that are of discardable material	- None
b) Used avian equipments	- None

12.4.2. ORIGIN: Control and in eradication zone:  
 DESTINATION: Free and in eradication zone:

REASON FOR MOVEMENT	REQUISITES
a) Chick boxes, or egg cartons that are of discardable material	- Movement prohibited
b) Used avian equipments	- Disinfected under the supervision of an approved or official veterinary doctor

12.4.3. ORIGIN: Free zone  
 DESTINATION: Free, in eradication or control zone:

REASON FOR MOVEMENT	REQUISITES
a) Chick boxes, or egg cartons that are of discardable material	- None
b) Used avian equipments	- None

### 13. EPIDEMIOLOGICAL SURVEILLANCE

13.1. In the case of an outbreak in a farm or a positive VND virological isolation, the owner of the birds as well as the approved veterinary doctor and/or the one responsible for the farm or the laboratory, as it so corresponds, shall be obligated to immediately

notify such a case to the Ministry.

13.2. In regions, states and zones in eradication or free from VND, it is the responsibility of the federal and state governments, as well as the holders or producers of birds and the approved veterinary doctors to execute the epidemiological surveillance of all suspected or confirmed VND outbreaks.

Said surveillance shall be done through the verification of birds, their products and by-products, as well as the official documentation that is required for their movement from control areas to areas in eradication or free, as well as, by virological monitoring, whenever the federal and state governments so determine it, as well as through the organized producers and those sectors related to the avian industry, in accordance to the provisions under the accords and covenants that to that effect shall be signed.

#### **14. LOCALIZATION OF AVIAN ENTERPRISES, HATCHERIES, SLAUGHTER HOUSES, MEAT PACKERS, SIFTERS AND FEED PRODUCERS**

The provisions relative to this point shall be applicable to the new units that are being planned or are in the process of being established.

14.1. In order to establish a farm of primary or multiplier breeders and specific pathogen free birds, there must be a distance of 5 km from these farms to the nearest avian, porcine or cattle enterprise, including slaughter houses, feed and other by-products processing plants. This distance shall also be applied to human habitations where domesticated birds are reared. The distance can be modified taking into consideration the existent dominance of winds and the topography of the terrain.

14.2 For farms of broilers, commercial layers, turkeys for fattening, and replacement birds the distance shall be of 1 to 3 km between these and other avian, porcine and cattle enterprises, susceptible of modification according to the dominant winds and the topography.

14.3. The hatcheries should be at least 2 km from any other avian, porcine and cattle enterprises. This distance shall also be applied to human habitations.

14.4. The feed producing plants shall be established at least 500 meters away from other avian, porcine and cattle enterprises.

14.5. For the sanitary control of waste such as dead animals and garbage, there must be available one of the following elimination methods.

- a) Incinerating furnaces
- b) Rendering plants

- c) Sanitary burial
- d) Others that the Department may so deem it

14.6. The rendering and sieving plants for chicken and hen manure, with bedding, must be at least 5 km away in relation to other avian enterprises, and at least 1 km away from the side of federal or principal highways, taking into consideration the dominant winds and the topography.

14.7. The transportation of chicken or hen manure with litter must be done in closed vehicles or in sacks.

14.8. For animal consumption or the agricultural use of the chicken and hen manure, there must be a minimum distance of 5 km from other avian farms; or else having previously obtained authorization by the owner of the farm.

## **15. IMPORTS**

15.1. The birds, avian products and by-products, that are to be imported must have an Animal Sanitary Certificate of origin that shall indicate in it, that they come from a country, state, region, farm and/or hatchery free from VND.

## **16. CONCORDANCE WITH INTERNATIONAL STANDARDS**

This Mexican Regulatory Standard is not equivalent to any international standard.

## **17. SANCTIONS**

The non-compliance of the requirements contained within this Standard shall be sanctioned in accordance to the provisions of the Federal Animal Health Act.

## **18. BIBLIOGRAPHY**

ANECA. Curso sobre diagnóstico de laboratorio para la Campaña contra la enfermedad de Newcastle y Salmonelosis Aviar. Enero 1993.

Code of Federal Regulations. Part 1 to 199. Washington, D.C. 1993.

Manual de procedimientos sobre la Protección de la salud animal y humana en las instalaciones pecuarias y avícolas. Agosto. 1983.

Pomeroy, B.S. and K.V. Nagaraja Fowl Typhoid. En: Diseases of Poultry Ed Calnek B.W. et al., 9th Ed. Iowa State University Press, Ames, Iowa USA 1991 pp 452-470.

## **19. TRANSITORY PROVISIONS**

This Standard shall come into effect the following day after its publication in the Official Federal Gazette.

Effective Suffrage. No Reelection.

México, D.F. on the 7th of February of 1995.- The General Law Department, Roberto Zavala Echavarría.- Signature.

## MINISTRY OF AGRICULTURE AND WATER RESOURCES

### **Mexican Regulatory Standard NOM-005-ZOO-1994 National Campaign against Avian Salmonellosis.**

-----  
At the margin a seal with the National Emblem, that says: Mexican United States.- Ministry of Agriculture and Water Resources.-General Law Department.

The Ministry of Agriculture and Water Resources, through the General Law Department, under the articles: 1st, 3rd, 4th fraction III, 12th, 13th, 21st, 22nd, 31st, 32nd and 33rd of the Federal Animal Health Act; 1st, 38th fraction II, 40th, 41st, 43rd, 47th fraction IV of the Federal Weights, Measures and Standards Act; 26th and 35th of the Federal Public Administration Organic Law; 10th fraction V of the Ministry of Agriculture and Water Resources' Internal Act; and

### **CONSIDERING**

That it is a function of the Ministry of Agriculture and Water Resources to promote livestock production and therefore to prevent, control and eradicate diseases and harmful pests that, as Avian Salmonellosis, affect the national poultry industry in its production level.

That by accord published in the Official Federal Gazette on the 25th of March of 1980, the National Campaign against Avian Salmonellosis was established in all the national territory on an obligatory, general and permanent basis.

That on the 12th of March of 1992, the modifications to the program of the Campaign were published in the official Federal Gazette.

That the poultry industry has a high degree of productive efficiency for the sustainment of the feeding level of the country's population.

That Avian Typhoid and Pullorosis are bacterial diseases produced by *Salmonella gallinarum* and *Salmonella pullorum* respectively, and are generically known as Avian Salmonellosis, a highly contagious disease, that affects young as well as older birds, producing high mortality, reduction in the egg production, lower incubability, expenses in treatments and vaccinations and important economic loses for the national poultry industry.

That to increase production and improve the sanitary quality of birds, their products or by-products, it is necessary to establish a strict control on Avian Salmonellosis, vying for its eradication, in order to allow the national poultry industry to develop in better sanitary conditions.

That to comply with the objectives hereinbefore stated, I issue the Mexican Regulatory Standard NOM-005-ZOO-1993, National Campaign against Avian Salmonellosis.

**INDEX**

1. OBJECTIVE AND FIELDS OF APPLICATION
2. REFERENCES
3. DEFINITIONS AND TERMINOLOGY
4. APPROVAL
5. GENERAL CAMPAIGN PROCEDURES
6. CAMPAIGN PHASES
7. DIAGNOSIS
8. HATCHERIES
9. CAMPAIGN PROGRAMS
10. IMMUNIZATION
11. QUARANTINE MEASURES
12. COMPENSATION
13. MOVEMENT OF BIRDS, AVIAN PRODUCTS AND BY-PRODUCTS, AVIAN IMPLEMENTS AND ANIMAL ORIGIN MEALS.
14. EPIDEMIOLOGICAL SURVEILLANCE
15. LOCATION OF AVIAN PREMISES, HATCHERIES, SLAUGHTER HOUSES, MEAT PACKERS, SIEVERS, AND FEED PLANTS.
16. IMPORTS
17. SANCTIONS
18. CONCORDANCES WITH INTERNATIONAL STANDARDS
19. BIBLIOGRAPHY
20. TRANSITORY PROVISIONS

## 1. OBJECTIVE AND FIELD OF APPLICATION

1.1. The Standard hereunder is of obligatory observance in all the national territory and its objective is to establish the procedures, activities, criteria, strategies and operative techniques for the prevention, control and eradication of Avian Salmonellosis (Avian Typhoid and Pullorosis), in all the national territory.

1.2. The vigilance of this Standard belongs to the Ministry of Agriculture and Water Resources, and also to the state governments in relation to their respective attributes and territories, under the corresponding coordination agreements.

1.3. The application of the provisions in this Regulatory Standard is the duty of the Animal Health Department, and also of the Ministry of Agriculture and Water Resources' Federal State Agencies in relation to their respective attributes and territorial boundaries.

## 2. REFERENCES

In order to correctly apply this Standard, the following Mexican Regulatory Standard must be consulted:

NOM-003-EM-ZOO-1994 Criteria for the Operation of Test Laboratories approved for animal sanitary purposes.

## 3. DEFINITIONS

### 3.1. Definitions and abbreviations

For the purposes of this regulatory standard, the following terms shall be construed respectively to mean:

#### 3.1. Polyvalent antigen K:

Verified and authorized by the Ministry of Agriculture and Water Resources biological product used for the serological detection of bird carriers in the field of Pullorosis (*S. pullorum*) and Avian Typhoid (*S. gallinarum*), formed by the following strains:

intermediate	-	4
standard		11
variant	-	77
variant	-	79
variant	-	269

3.2. APSP:

Quick agglutination plate test (with whole blood) for *S. pullorum* and *S. gallinarum*.

3.3. Campaign:

The National Campaign against Avian Salmonellosis (Pullorosis and Avian Typhoid).

3.4. Animal Sanitary Certificate:

Official document issued by the Ministry of Agriculture and Water Resources or by those persons so approved or accredited to certify the upholding of this Standard. In the case of animals, it shall be signed by an accredited, approved or from the Ministry veterinary doctor.

3.5. Document of proof of free flock:

Official document issued by the Ministry of Agriculture and Water Resources and granted to the owners of the flocks enrolled in the Campaign and that have complied with the established guidelines for the verification program.

3.6. Document of proof of free farm:

Official document issued by the Ministry of Agriculture and Water Resources and granted to the owners of the farms enrolled in the Campaign and that have complied with the established guidelines for the verification program.

3.7. Document of proof of controlled flock:

Official document issued by the Ministry of Agriculture and Water Resources and granted to the owners of the flocks enrolled in the Campaign, that use R9 Vaccine and/or drugs against Avian Salmonellosis and that have complied with the established guidelines for the verification program.

3.8. Document of proof of controlled farm:

Official document issued by the Ministry of Agriculture and Water Resources and granted to the owners of the farms enrolled in the Campaign, that use R9 Vaccine and/or drugs against Avian Salmonellosis, or whose birds come from controlled flocks and that have complied with the established guidelines for the verification program.

3.9. Document of proof of enterprise enrolled in the Campaign:

Official document issued by the Ministry of Agriculture and Water Resources and granted to the enterprises, owners of the birds enrolled in the Campaign and that have complied with the established guidelines for the verification program.

### 3.10. Control:

Set of animal sanitary measures whose object is to decrease the incidence or prevalence of Avian Salmonellosis (Pullorosis and Avian Typhoid), in a determinate geographical area.

### 3.11. Department:

The General Animal Health Department.

### 3.12. Eradication:

The total elimination of Avian Salmonellosis (Pullorosis and Avian Typhoid) in a determinate geographical area.

### 3.13. Approved Laboratory:

Laboratory recognized by the Ministry of Agriculture and Water Resources to render diagnostic services in animal sanitary matters.

### 3.14. Approved Veterinary Doctor:

Professional recognized by the Ministry of Agriculture and Water Resources in order to render diagnostic services in animal sanitary matters.

### 3.15. Official Veterinary Doctor:

Professional that is a part of the Ministry of Agriculture and Water Resources.

### 3.16. Procedures or phases:

Set of animal sanitary activities done in a continuous and strategic fashion, necessary for the eradication of Avian Salmonellosis (Pullorosis and Avian Typhoid)

### 3.17. Prevention:

Set of animal sanitary activities, based on epizootiological studies, that have as an object to avoid the presence of Avian Salmonellosis (Pullorosis and Avian Typhoid).

### 3.18. Diagnostic Tests:

These are the official diagnostic methods for Pullorosis and Avian Typhoid:

- Complete blood quick agglutination plate test.

- Bacteriological test with identification and isolation of *S. pullorum* and *S. gallinarum*.

### 3.19. Avian Salmonellosis:

Contagious bacterial disease, whose causative agents are *S. pullorum* that produces Pullorosis and *S. gallinarum* that produces Avian Typhoid.

### 3.20. Ministry:

The Ministry of Agriculture and Water Resources:

### 3.21. R9 Vaccine:

The verified and authorized by the Ministry biological, used for Avian Typhoid control.

### 3.22. Low prevalence zone:

Determinate geographical area, where the presence of recent Avian Salmonellosis cases has a minimum frequency, during a given interval of time.

### 3.23. Control zone:

Determinate geographical area, where animal sanitary measures are operated, in order to reduce the incidence or prevalence of Avian Salmonellosis, in a given interval of time.

### 3.24. Eradication zone or state:

Determinate geographical area, where animal sanitary measures are operated, in order to eliminate Avian Salmonellosis, or epizootiological studies are being made, in order to prove the absence of said disease, in a given interval of time.

### 3.25. Free zone or state:

Determinate geographical area, where Avian Salmonellosis has been eliminated or where there have not been positive cases of the disease, in a given interval of time.

## 4. APPROVAL

4.1. Approval shall be granted concerning Avian Salmonellosis to the Veterinary Doctors that comply with the requisites established in the Mexican Regulatory Standard that shall be issued to that effect, who participate in the verification of flocks, farms, enterprises, free and control birds; as well as the activities of eradication that the Ministry so deems, and the epidemiological surveillance in control, eradication and free areas of said diseases.

4.2. The diagnostic laboratories that comply with the requisites established within the Mexican Regulatory Standard that shall be issued to that effect, shall be approved and will be allowed to emit isolation and bacterial identification results, for the verification of flocks, farms, enterprises and free and control birds; as well as for the taking of bacteriological samples in eradication or in process of identification as free, regions, states or zones.

## 5. GENERAL CAMPAIGN PROCEDURES

5.1. In primary breeder flocks, the following programs will be executed:

- a) Issuance of documents of proof of flocks free from Avian Salmonellosis; and
- b) Sacrifice of flocks positive to *S. pullorum* and *S. gallinarum*.

5.2. In multiplier breeder flocks the following programs shall be executed:

- a) Issuance of documents of proof of flocks free from Avian Salmonellosis; and
- b) Sacrifice of flocks positive to *S. pullorum* and *S. gallinarum*, when they are found in zones or states that are in eradication phase or are free from Avian Salmonellosis; and
- c) To apply the R9 Vaccine and/or treatment, in flocks positive to *S. pullorum* and *S. gallinarum*, each case shall be so determined by the Department, in order to grant the respective authorization.

5.3. In broiler, fighting cocks, layer and turkey farms, flocks and birds the following programs shall be executed.

- a) Issuance of documents of proof of farms or flocks free from Avian Salmonellosis; and
- b) Sacrifice of flocks or birds positive to *S. pullorum* and *S. gallinarum*, that are within Avian Salmonellosis free or eradication zones or states.

5.4. In birds of song, ornament or wild life the following programs shall be executed:

- a) Issuance of documents of proof of farms or flocks free from Avian Salmonellosis; and
- b) Sacrifice of flocks or birds positive to *S. pullorum* and *S. gallinarum*, that are within Avian Salmonellosis free or in eradication zones or states.

5.5. In farms, flocks and domesticated fowl not cited in the hereinbefore points, the following programs shall be executed:

- a) Issuance of documents of proof of farms or flocks free from Avian Salmonellosis; and

b) Sacrifice of flocks or birds positive to *S. pullorum* and *S. gallinarum*, that are within Avian Salmonellosis free or in eradication zones or states.

## 6. CAMPAIGN PHASES

6.1. The Campaign includes the following operation phases:

- a) Control
- b) Intensive control
- c) Eradication
- d) Free

6.2. The Campaign shall be executed in 5 levels:

- a) Flock
- b) Farm
- c) Zone
- d) State
- e) Region

6.3. The recognition of the Campaign Phases shall be limited to the following requisites:

6.3.1. Control:

Movement control, adequate epidemiological surveillance system; diagnostic infrastructure; promotion program for the Campaign; and the verification of primary breeder and multiplier breeders.

6.3.2. Intensive control

Movement control, adequate epidemiological surveillance system; diagnostic infrastructure; promotion program for the Campaign; and the verification of primary breeders and multiplier breeders; progressive verification of layers, broilers, turkeys, fighting cocks, birds of song and ornament, or wildlife farms for production or breeding purposes.

6.3.3. Eradication

Have an operational movement control system for animals, their products, by-products and avian equipments; the suspension of bird vaccinations; adequate epidemiological surveillance system, Campaign promotion program; determination of the sample size as deemed by the Department, that shall corroborate the absence of *S. pullorum* and *S. gallinarum* in layers, broilers, turkeys, fighting cocks, birds of song and ornament, or wildlife farms for production or breeding purposes.

Primary breeders shall invariably be certified.

#### 6.3.4. Free:

Having complied with the specified provisions of the point hereinbefore stated, verifying the absence of *S. pullorum* and *S. gallinarum*, by negative bacterial isolations in 100% of the farms within the zone or state to be considered as free; or by verification of 100% of the primary and multiplier breeder flocks, as well as taking samples of the rest of the involved avian production; having emergency and epidemiological surveillance systems.

An accord by the Minister of Agriculture and Water Resources shall be published in the Official Federal Gazette to declare a zone as free.

## 7. DIAGNOSIS

7.1. To participate in the Campaign, samples shall be sent to the official or approved by the Ministry laboratories.

7.2. The official tests for the Campaign purposes are:

- a) Quick agglutination plate test, with complete blood; and
- b) Bacteriological test by isolation and identification of *S. S. pullorum* and *S. gallinarum*.

7.3. For the isolation and identification of *S. pullorum* and *S. gallinarum*, the samples must be:

a) From birds that have been found positive or suspicious to the APSP test, or are sad or diseased. culture from:

- Liver
- Spleen
- Gall bladder
- Ovaries
- Testes
- Cecal tonsils
- Pancreas

b) From dead birds culture from:

- Liver
- Spleen
- Gall bladder
- Ovaries

- Testes
- Bone marrow

c) From chicks culture from:

- Liver
- Spleen
- Gall bladder
- Yolk

d) From fighting cocks:

- Cloacal swabs

e) Wild, song and ornament birds culture from:

- Cloacal swabs and/or fresh faeces.

f) From dead combat birds:

- Liver
- Spleen
- Gall bladder
- Ovaries
- Bone marrow

g) From wild, song and ornament birds culture from:

- Liver
- Spleen
- Gall bladder
- Ovaries
- Bone marrow

h) From 18 day old or picked embryos culture from

- Liver
- Yolk

Birds and other samples sent to the laboratory must be processed in groups of 10.

Three consecutive serial cultures shall be made to determine when a case is positive or negative to *S. pullorum* and *S. gallinarum*.

7.4. The way to send samples to the official or approved by the Ministry laboratory, shall be the

following:

7.4.1. The complete organs shall be sent in jars or sterile bags and in refrigeration (4°C) within 48 hrs maximum after they have been obtained.

7.4.2. Live birds must be sent in cages or adequate boxes for their transportation.

7.4.3. The swabs shall be sent in sterile airtight containers, in a maximum period of 48 hours after they have been obtained. They shall be sent in peptonic water or any other transport medium as required by the laboratory to which the sample shall be sent, and they must be preserved in refrigeration at 4°C.

7.5. Culture mediums required for the isolation of *S. pullorum* and *S. gallinarum*.

a) Selective enrichment mediums:

- tetrathionate brilliant green broth
- iodized tetrathionate broth
- selenite broth

b) Culture mediums:

- MacConkey agar
- Brilliant green agar

c) Biochemical tests mediums

- TSI
- LIA
- SIM
- Urea
- Simmons citrate

d) Complementary biochemical tests mediums:

- Malonate broth
- Glucose
- Saccharose
- Lactose
- Dulcitol
- Maltose

e) Antisera that are required for serotyping:

- Polyvalent Al-vi antiserum

- Somatic "O" Group D antiserum

7.6. Isolation Method for *S. pullorum* and *S. gallinarum*:

**SAMPLE**

Selective enrichment broth  
1:10 sample broth

and/or

Inoculate in selective solid mediums

Incubate 24 hrs at 37°C. If growth is negative to *Salmonella spp*  
Re-inoculate at 48 and 72 hours after eliminating the liquid medium

Inoculate suspect colonies in biochemical test mediums

incubate 24 hrs

at 37°C

Serotyping

7.7. Serology

7.7.1. To do the test a Polyvalent antigen K shall be used, and this test will be taken as complementary to the bacteriological test.

7.7.2. The APSP will be taken as positive, if the agglutination is light or strong, and evident between zero to 120 sec after having mixed the antigen with the blood.

7.7.3. The APSP will be taken as suspect, if the agglutination is evident between 90 to 120 sec after having mixed the antigen with the blood.

7.7.4. The APSP will be taken as suspect, if the agglutination is evident after 120 sec following the mixture of the antigen with the blood.

7.7.5. The bacteriological tests will be done under the responsibility of the approved laboratory and the serological tests correspond to the approved Veterinary Doctor in this matter, as well as the approved laboratory.

## 8. HATCHERIES

8.1. The hatcheries that are incubating fertile eggs from flocks in control must do bacteriological exams of 10, 18 day old or picked embryos, from the eggs that come from the control flocks, repeated with a minimum of every three weeks and maximum of a month.

The results of these exams will be handed in to the respective federal state livestock underagency, whenever they are so required.

8.2. Waste, from incubators where fertile eggs from infected flocks are, shall be incinerated or inactivated before discarding.

8.3. Handling of chicks in the hatchery.

8.3.1. The chick that comes from control flocks shall not be handled with the chicks that come from free flocks.

8.3.2. The hatchery shall notify the owner of the birds, in writing, whenever it delivers male or female replacement chicks, if they come from an Avian Salmonellosis free or in control flock.

The hatcheries that handle fertile eggs from control flocks must not send the chicks to eradication or free zones.

8.4. Transportation

8.4.1. Trucks that transport eggs and male or female replacement chicks must be washed and disinfected before loading and after delivery.

8.4.2. Only eggs and male or female replacement chicks from Avian Salmonellosis free flocks shall be transported in one shipment, without mixing with birds, their products or by-product that come from control flocks.

## 9. CAMPAIGN PROGRAMS

9.1. The primary breeders free from Avian Salmonellosis, must comply with the following requisites in order to obtain document of proof that they are free from Avian Salmonellosis:

a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.

b) Register of the serological results of the APSP test of 10% of the birds in the flock, in the case of primary broiler and double-purpose breeders, this test shall be made at 20 weeks of age, in male and female lines; in layer breeders, after the 18th week of age.

c) Negative bacteriological results to *S. pullorum* and *S. gallinarum* on 10 birds per line.

d) Bacteriological exams shall be initiated in the case of broiler and double-purpose breeders, this test shall be made after the 20th week of age, in layer breeders, after the 18th week of age.

9.2. The flocks of multiplier breeders free of Avian Salmonellosis, including turkeys, must comply with the following requisites in order to obtain document of proof that they are free from Avian Salmonellosis:

a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.

b) Register of the serological results of the APSP test of 10% of the birds in the flock, in the case of broiler and double-purpose multiplier breeder and turkey breeders, this test shall be made at 20 weeks of age, in male and female lines; in layer breeders, after the 18th week of age.

c) Negative bacteriological results to *S. pullorum* and *S. gallinarum* on 10 birds per line.

d) Bacteriological exams shall be initiated in the case of broiler and double-purpose breeders, this test shall be made after the 20th week of age, in layer breeders, after the 18th week of age.

9.3. The flocks of multiplier breeders in control of Avian Salmonellosis, including turkeys, must comply with the following requisites in order to obtain document of proof that they are free from Avian Salmonellosis:

a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.

b) Negative bacteriological results to *S. pullorum* and *S. gallinarum* on 10 birds per line.

d) Bacteriological exams shall be made in the case of broiler and double-purpose breeders and turkeys after the 20th week of age, in layer breeders, after the 18th week of age.

9.4. The flocks in growth and development of primary breeders, multiplier breeders and layers, must comply with the following requisites in order to obtain a document of proof that they are free from Avian Salmonellosis:

a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.

b) Negative bacteriological results to *S. pullorum* and *S. gallinarum* on 3 birds between 7 and 14 days of age.

c) The document of proof shall be in effect for 4 months counting from the date of issuance of

the laboratory results.

9.5. The layer farms in control or free from Avian Salmonellosis must comply with the following requisites in order to obtain document of proof that they are free from Avian Salmonellosis:

- a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.
- b) Negative bacteriological results to *S. pullorum* and *S. gallinarum* field strains on 5 birds selected randomly per every ten thousand birds in the farm, from all the houses within the farm.
- d) Negative bacteriological exams shall be repeated every four months from the date of the document of proof and the results shall be sent within the following 30 days after the taking of samples, to the respective Federal State Livestock Underagency during the time span that the document of proof is in effect, or else it shall be cancelled.

9.6. The molting flocks must comply with the following requisites in order to obtain document of proof that they are free from Avian Salmonellosis:

- a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.
- b) Negative bacteriological results to *S. pullorum* and *S. gallinarum* field strains on 10 primary breeders per line and 10 primary breeders per flock.
- c) Photostatic copy of the document of proof that they are free from Avian Salmonellosis signed by an official or approved Veterinary Doctor in the respective area.

9.7 The farms of broilers and turkeys free or in control of Avian Salmonellosis must comply with the following requisites in order to obtain document of proof that they are free from Avian Salmonellosis:

- a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.
- b) Negative bacteriological results to field strains on three to five chicks or poults of seven to fourteen days of age, for every ten thousand in the farm. This test must be repeated on each lot that enters into the farm, from the date of issuance of the proof of evidence.

The results of the corresponding retesting bacteriological exams, shall be sent to the respective Federal State Livestock Underagency within 45 days of the internment of the lot into the farm, or else the proof of evidence shall be cancelled.

9.8. The flocks and farms of fighting cocks, should cover the following requisites in order to

obtain proof of evidence as free or in control of Avian Salmonellosis:

a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.

b) Negative bacteriological results to *S. pullorum* and *S. gallinarum* field strains on 10 cloacal swabs and/or 10 birds of the mortality or 10% of the total number of birds, whichever is the highest quantity.

c) The bacteriological exams shall be repeated every four months from the date of the document of proof and the results shall be sent within the following 36 days after the taking of samples, to the respective Federal State Livestock Underagency during the time span that the document of proof is in effect, or else it shall be cancelled.

#### 9.9. Wildlife, song and ornament birds and other domesticated fowl.

Taking into consideration and evaluating the type of birds, the geographical and sanitary situation of the animals, the Department shall decide on the application of the following requisites:

a) Inscription to the Campaign format properly filled out and signed by an official or approved Veterinary Doctor.

b) Negative bacteriological results to *S. pullorum* and *S. gallinarum* field strains on 10 cloacal swabs and/or 10 birds of the mortality or 10% of the total number of birds, whichever is the highest quantity, this test shall be repeated every 40 days from the date of issuance of the document of proof.

The results of the repeat bacteriological exams shall be sent within the following 36 days after the taking of samples, to the respective Federal State Livestock Underagency during the time span that the document of proof is in effect, or else it shall be cancelled.

#### 9.10. Time of effect of documents of proof.

a) The documents of proof for broiler and double-purpose primary and multiplier breeders free flocks, shall be in effect during 10 months from the date of the APSP test.

The documents of proof for layer primary and multiplier breeders free flocks, shall be in effect during 13 months from the date of the APSP test.

b) The documents of proof for broiler and double purpose multiplier breeders in control shall be in effect during 10 months after the issuance of the bacteriological laboratory results. The documents of proof for layer multiplier breeders control flocks, shall be in effect during 13 months from the date of the issuance of the bacteriological laboratory results.

c) The documents of proof of broiler, layer, turkey, wildlife, song and ornament and other domesticated fowl enterprises, flocks or farms free from Avian Salmonellosis will be in effect during 12 months from the issuance of the bacteriological laboratory results.

9.11. Use and restrictions of the documents of proof.

- a) The documents of proof must be shown to the official personnel whenever they so require it.
- b) The documents of proof must come along with any shipment of birds, their products or subproducts, these may be photocopies of the original document of proof, provided they are validated with the seal and signature of an official or an approved by the Ministry for the Campaign against Avian Salmonellosis Veterinary Doctor.

## 10. IMMUNIZATION

10.1. The vaccines that are used for the Campaign activities must be verified and authorized by the Ministry for each lot produced.

10.2. It shall be possible to use live vaccines prepared with R9 strain of *S. gallinarum*, for Avian Typhoid control, except in primary breeders, in all the national territory or in any type of birds that are in a free or in an eradication state for said disease.

10.3. The application of vaccines shall be under official control and they shall be used under previous authorization, for multiplier breeders, layers, turkeys, fighting cocks and other domesticated fowl. The application of vaccines is barred from primary breeders. Its application is forbidden in wildlife, song and ornament and other domesticated fowl.

10.4. In the states that wish to classify as in eradication, the application of the R9 vaccine and bacterines shall be suspended from primary and multiplier breeders, for at least a year previous to its intent of classification. Its application is barred from any type of domestic or wild fowl in a free or in an eradication state.

10.5. The vaccination must be applied or supervised by approved or official Veterinary Doctors who shall issue a document of proof of vaccination.

10.6. The handling of vaccines and antigens shall be made with strict conservation measures, keeping an efficient cold chain, this shall be the shared responsibility of the owners, the approved or official Veterinary Doctors, enterprises and commercial handlers of biological products and those others that the Ministry so deems it.

## 11. QUARANTINE MEASURES

11.1. The production units shall be subjected to quarantine measures, precautionary or definitive, under the following circumstances:

- a) The suspicion of an outbreak of Avian Salmonellosis; and/or
- b) A confirmed outbreak of *S. pullorum* and/or *S. gallinarum*.

11.2. The quarantine shall be officially notified by the Ministry indicating the reason, restrictions and the applicable animal sanitary measures.

11.3. The establishment and ending of quarantine measures will be done as provided for in the Federal Animal Health Act.

## 12. COMPENSATION

The Ministry shall coordinate with the state governments, producers and other persons related to the avian production, compensation mechanisms, in money or in kind, in order to allow the elimination of an outbreak, without injuring economically the producer.

## 13. MOVEMENT OF BIRDS, THEIR PRODUCTS, BY-PRODUCTS, AVIAN EQUIPMENT AND ANIMAL MEALS.

13.1. The movement of birds shall be regulated in all the national territory, taking into account the zones of origin and destination, reason for the movement and the requisites that shall be as follows:

13.1.1. ORIGIN: Control zone  
DESTINATION: Control zone

REASON OF MOVEMENT	REQUISITES
a) Less than 3 day old birds for breeding	- Document of proof of free from Avian Salmonellosis flock.  - Animal Sanitary Certificate.
b) Less than 3 day old re-population and broiler birds	- Document of proof of free or in control of Avian Salmonellosis  - Animal Sanitary Certificate.
c) More than 3 day old re-population and broiler birds.	- Animal Sanitary Certificate.

- d) Slaughter birds - Animal Sanitary Certificate.
- e) Fighting cocks - Document of proof of free or in control of Avian Salmonellosis flock, farm or enterprise.  
- Animal Sanitary Certificate.
- f) Exhibition birds - Document of proof of free or in control of Avian Salmonellosis flock, farm or enterprise.  
- Animal Sanitary Certificate.
- g) Birds of song and Ornament - Animal Sanitary Certificate.
- h) Wild birds and other domesticated fowl not considered in the preceding points. - Shall be determined in each case by the Department.

The vehicles used for the transportation of birds, shall be washed and disinfected before and after each shipment.

13.1.2. ORIGIN: Control zone

DESTINATION: Free or in eradication zone

REASON OF MOVEMENT	REQUISITES
a) Less than 3 day old birds for breeding	- Document of proof of free from Avian Salmonellosis flock. - Animal Sanitary Certificate.
b) Less than 3 day old re-population and broiler birds	- Document of proof of free from Avian Salmonellosis flock.

- Animal Sanitary Certificate.
- c) More than 3 day old re-population and broiler birds.
  - Animal Sanitary Certificate.
  - Document of proof of free from Avian Salmonellosis flock or farm.
- d) Slaughter birds
  - Document of proof of free from Avian Salmonellosis flock or farm.
  - Animal Sanitary Certificate.
- e) Fighting cocks
  - Document of proof of free from Avian Salmonellosis flock, farm or enterprise.
  - Animal Sanitary Certificate.
- f) Exhibition and fair birds
  - Document of proof of free from Avian Salmonellosis flock, or enterprise, except when they come from free regions or states.
  - Animal Sanitary Certificate.
- g) Birds of song and ornament
  - Document of proof of free from Avian Salmonellosis flock, farm, or enterprise.
  - Animal Sanitary Certificate.
- h) Wild birds and other domesticated fowl not considered in the preceding points.
  - Shall be determined in each case by the Department.

The vehicles used for the transportation of birds, shall be washed and disinfected before and after each shipment.

13.1.3. ORIGIN: Eradication zone  
DESTINATION: Control zone

REASON OF MOVEMENT	REQUISITES
a) Less than 3 day old birds for breeding	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock.</li> <li>- Animal Sanitary Certificate.</li> </ul>
b) Less than 3 day old re-population and broiler birds	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock.</li> <li>- Animal Sanitary Certificate.</li> </ul>
c) More than 3 day old re-population and broiler birds.	<ul style="list-style-type: none"> <li>- Animal Sanitary Certificate.</li> </ul>
d) Slaughter birds	<ul style="list-style-type: none"> <li>- Animal Sanitary Certificate.</li> </ul>
e) Fighting cocks	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock, farm or enterprise.</li> <li>- Animal Sanitary Certificate.</li> </ul>
f) Exhibition and Fair birds	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock, farm or enterprise, except if they come from free regions or states</li> <li>- Animal Sanitary Certificate.</li> </ul>
g) Song and Ornament birds	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock, farm or enterprise.</li> </ul>

- Animal Sanitary Certificate.

h) Wild birds and other domesticated fowl not considered in the preceding points.

- Shall be determined in each case by the Department.

The vehicles used for the transportation of birds, shall be washed and disinfected before and after each shipment.

13.1.4. ORIGIN: Eradication zone

DESTINATION: Free or eradication zone

REASON OF MOVEMENT	REQUISITES
a) Less than 3 day old birds for breeding	- Document of proof of free from Avian Salmonellosis flock.  - Animal Sanitary Certificate.
b) Less than 3 day old re-population and broiler birds	- Document of proof of free from Avian Salmonellosis flock.  - Animal Sanitary Certificate.
c) More than 3 day old re-population and broiler birds.	- Animal Sanitary Certificate.  - Document of proof of free from Avian Salmonellosis flock or farm.
d) Slaughter birds	- Document of proof of free from Avian Salmonellosis flock or farm.  - Animal Sanitary Certificate.
e) Fighting cocks	- Document of proof of free from

- Avian Salmonellosis flock,  
farm or enterprise.
- Animal Sanitary Certificate.
- f) Exhibition and  
Fair birds
- Document of proof of free from Avian Salmonellosis flock, farm or enterprise, except if they come from free regions or states
  - Animal Sanitary Certificate.
- g) Song and Ornament  
birds
- Document of proof of free from Avian Salmonellosis flock, farm or enterprise.
  - Animal Sanitary Certificate.
- h) Wild birds and other  
domesticated fowl not  
considered in the  
preceding points.
- Shall be determined in each case by the Department.

The vehicles used for the transportation of birds, shall be washed and disinfected before and after each shipment.

13.1.5. ORIGIN: Free zone

DESTINATION: Free, in eradication or control zone

REASON OF MOVEMENT	REQUISITES
a) Less than 3 day old Avian Salmonellosis flock.	- Animal Sanitary Certificate.
b) Less than 3 day old re-population and broiler birds	- Animal Sanitary Certificate.

- c) More than 3 day old re-population and broiler birds. - Animal Sanitary Certificate.
- d) Slaughter birds - Animal Sanitary Certificate.
- e) Fighting cocks - Animal Sanitary Certificate.
- f) Exhibition and Fair birds - Animal Sanitary Certificate.
- g) Song and Ornament birds - Animal Sanitary Certificate.
- h) Wild birds and other domesticated fowl not considered in the preceding points. - Shall be determined in each case by the Department.

The vehicles used for the transportation of birds, shall be washed and disinfected before and after each shipment.

13.1.6. The birds for fighting, fairs, exhibitions, song and ornament as referred to in the points 13.1.1., 12.1.2., 13.1.3., and 13.1.4., will not lose their place of origin if they do not remain more than 30 days at their place of destination; so that they can return to their place of origin, provided that they are tested and the bacteriological results are negative to *S. pullorum* and *S. gallinarum*. The tests shall be done before the movement of birds to their place of destination. Document of proof of in control or free from Avian Salmonellosis flock, farm or bird, except for those birds whose origin is in free states, then they shall only show their Animal Sanitary Certificate.

13.2. The movement of avian products shall be regulated in all the national territory taking into account the zone of origin, and destination, the reason for the movement and the requisites that are hereunder stated:

13.2.1. ORIGIN: Control zone  
DESTINATION: Control zone

REASON OF MOVEMENT	REQUISITES
a) Fertile eggs:	- Document of proof of free or in control of Avian Salmonellosis flock.  - Animal Sanitary Certificate.
b) Table eggs:	- Animal Sanitary Certificate.
c) Meat and eggs for industrial purposes:	- Document of proof of free or in control from Avian Salmonellosis flock; or cooked before during 10 min. at 60°C or gamma irradiated, or pasteurized.  - Animal Sanitary Certificate.
d) Meat in carcasses or pieces thereof:	- Animal Sanitary Certificate.
e) Salted meat:	- Animal Sanitary Certificate.  - Meat must be covered by a thin layer of NaCL grains or powder up to 10% of the weight of the meat, or remains and presented in separate individual parts or fractions.
f) Meat or remains in brine:	- Animal Sanitary Certificate.

- Impregnated in a 10% saturated solution of water and NaCl.
- f) Sausages
  - Document of proof of free or in control from Avian Salmonellosis flock, or cooked before during 10 min. at 60°C or gamma irradiated, or pasteurized.
  - Animal Sanitary Certificate.
  - Comply with the requirements of said process.
- g) Canned products
  - Sterile
  - Animal Sanitary Certificate.

The vehicles used for the transportation of products, shall be washed and disinfected before and after each shipment.

13.2.2. ORIGIN: Control and in eradication zone  
 DESTINATION: Free or in eradication zone

REASON OF MOVEMENT	REQUISITES
a) Fertile eggs:	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock.</li> <li>- Animal Sanitary Certificate.</li> </ul>
b) Table eggs:	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock.</li> <li>- Animal Sanitary Certificate.</li> </ul>
c) Meat and eggs for industrial purposes:	<ul style="list-style-type: none"> <li>- Document of proof of free from Avian Salmonellosis flock; or previously cooked during 10 min. at 60°C</li> </ul>

- or gamma irradiated, or pasteurized.
- Animal Sanitary Certificate.
- d) Salted meat:
- Document of proof of free from Avian Salmonellosis flock or farm.
  - Animal Sanitary Certificate.
  - Meat must be covered by a thin layer of NaCl grains or powder up to 10% of the weight of the meat, or remains and presented in separate individual parts or fractions.
- e) Meat or remains in brine:
- Document of proof of free from Avian Salmonellosis flock or farm.
  - Animal Sanitary Certificate.
  - Impregnated in a 10% saturated solution of water and NaCl.
- f) Sausages
- Document of proof of free from Avian Salmonellosis flock or farm, or previously cooked during 10 min. at 60°C or gamma irradiated, or pasteurized.
  - Animal Sanitary Certificate.
- g) Canned products
- Sterile
  - Animal Sanitary Certificate.

The vehicles used for the transportation of products, shall be washed and disinfected before and after each shipment.

All documents of proof or laboratory results shall be signed and sealed by the approved or official Veterinary Doctor.

13.2.1. ORIGIN: Free zone

DESTINATION: Free, in Eradication or Control zone

REASON OF MOVEMENT	REQUISITES
a) Fertile eggs:	- Animal Sanitary Certificate.
b) Table eggs:	- Animal Sanitary Certificate.
c) Meat and eggs for industrial purposes:	- Animal Sanitary Certificate.
d) Meat in carcasses or pieces thereof:	- Animal Sanitary Certificate.
e) Salted meat:	- Meat must be covered by a thin layer of NaCl grains or powder up to 10% of the weight of the meat, or remains and presented in separate individual parts or fractions.  - Animal Sanitary Certificate
f) Meat or remains in brine:	- Animal Sanitary Certificate.  - Impregnated in a 10% saturated solution of water and NaCl.

- g) Sausages: - Animal Sanitary Certificate.
- h) Canned products - Sterile  
- Animal Sanitary Certificate.

The vehicles used for the transportation of products, shall be washed and disinfected before and after each shipment.

13.3. The movement of avian by-products shall be regulated in all the national territory taking into consideration the origin and destination, reason for the movement and requisites thereof that are the following:

13.3.1. ORIGIN: Control zone:  
DESTINATION: Control zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- Animal Sanitary Certificate

13.3.2. ORIGIN: Control or in eradication zone:  
DESTINATION: Free or in eradication zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- Movement prohibited

13.3.3. ORIGIN: In eradication zone:  
DESTINATION: Control zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- Animal Sanitary Certificate

13.3.4. ORIGIN: Eradication zone:  
DESTINATION: Free zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- Movement prohibited

13.3.5. ORIGIN: Free zone:  
DESTINATION: Free, in eradication or control zone:

REASON FOR MOVEMENT	REQUISITES
a) Manure with or without litter, viscera, bedding	- Animal Sanitary Certificate

The movement of manure from chicks or hens must be done in closed vehicles or in sacks.

13.4. The movement of avian equipments shall be regulated in all the national territory taking into consideration the zone of origin and destination, reasons for the movement and requisites as hereunder stated:

13.4.1. ORIGIN: Control zone:  
DESTINATION: Control zone:

REASON FOR MOVEMENT	REQUISITES
a) Chick boxes, or egg cartons that are of discardable material	- None
b) Used avian equipments	- None

13.4.2. ORIGIN: Control and in eradication zone:  
DESTINATION: In eradication zone:

REASON FOR MOVEMENT	REQUISITES
---------------------	------------

- |   |  |
|---|--|
| a) Chick boxes, or egg cartons that are of discardable material | - Movement prohibited  |
| b) Used avian equipments  | - Disinfected under the supervision of an approved or official Veterinary Doctor |

13.4.3. ORIGIN: Free zone:

DESTINATION: Free, in eradication or control zone:

REASON FOR MOVEMENT	REQUISITES
a) Chick boxes, or egg cartons that are of discardable material	- None
b) Used avian equipments	- None

13.5. The movement of avian meals shall be regulated in all the national territory taking into consideration the zones of origin and destination, the reasons for the movement and the requisites hereinafter stated, provided that their use be exclusively be for birds y they shall not be subjected previously to any bacteriological control procedure:

13.5.1. ORIGIN: Free, in eradication or control zone:

DESTINATION: Free, in eradication or control zone:

REASON FOR MOVEMENT	REQUISITES
a) For consumption and industrialization:	<ul style="list-style-type: none"> <li>- In sacks</li> <li>- Negative bacteriological results to <i>S. pullorum</i> and <i>S. gallinarum</i>, by lot, by an approved or official laboratory.</li> </ul>

## 14. EPIDEMIOLOGICAL SURVEILLANCE

14.1. The report of diseases that are considered as reportable by law must be done following the provisions of the Federal Animal Health Act.

14.2. In the case of an outbreak in a farm or a positive bacteriological isolation for *S. pullorum* and *S. gallinarum*, the owner of the birds as well as the approved Veterinary Doctor and/or the one responsible for the farm or the laboratory, as it so corresponds, shall be obligated to immediately notify such a case to the Ministry.

14.3. In regions, states and zones in eradication or free from Avian Salmonellosis, it is the responsibility of the federal and state governments, as well as the owners or producers of birds and the approved Veterinary Doctors to execute the epidemiological surveillance of all suspected or confirmed Avian Salmonellosis cases.

Said surveillance shall be done through the verification of birds, their products and by-products, as well as the official documentation that is required for their mobilization from control or eradication areas to areas in eradication or free, as well as, by bacteriological monitoring, performed every semester or annually by the federal and state governments, as well as the organized producers and those sectors related to the avian industry, abiding by the provisions under the accords and covenants that to that effect shall be signed.

## **15. LOCALIZATION OF AVIAN ENTERPRISES, HATCHERIES, SLAUGHTER HOUSES, PACKERS, SIEVERS AND FEED PRODUCERS.**

The provisions relative to this point shall be applicable to the new units that are being planned or are in the process of being established.

15.1. In order to establish a farm of primary or multiplier breeders and specific pathogen free birds, there must be a distance of 5 to 10 km. from these farms to the nearest avian, porcine or cattle enterprise, including slaughter houses, feed and other by-products processing plants. This distance shall also be applied to human habitations where domesticated birds are reared.

The distance can be modified taking into consideration the existent dominance of winds and the topography of the terrain.

15.2 For farms of broilers, commercial layers, turkeys for fattening, the distance shall be of 1 to 3 km between these and other avian, porcine and cattle enterprises, susceptible of modification according to the dominant winds and the topography.

15.3. The hatcheries should be at least 2 km from any other avian, porcine and cattle enterprises. This distance shall also be applied to human habitations where domesticated birds are reared.

15.4. The slaughter houses and packing houses must have at least 2 kms from other avian, porcine and cattle enterprises.

15.5. The feed producing plants shall be established at least 500 meters away from other avian, porcine and cattle enterprises.

15.6. For the sanitary control of waste (mortality and garbage), there must be available one of the following elimination methods.

- a) Incinerating furnaces
- b) Rendering plants
- c) Sanitary burial
- d) Others that the Department may so deem it

15.7. For rendering, sieving and agricultural use of chicken and hen manure, with bedding, there must be a minimum distance of 5 km in relation to other avian enterprises, that is susceptible of being modified taking into consideration the dominant winds and the topography.

For the agricultural use of the chicken and hen manure, there must be a minimum distance of 5 km between the land to be fertilized and the avian farms and provided they have previously obtained authorization by the owner of the farm.

15.8. To render and sieve chicken and hen manure there must be a minimum distance of 1 km in relation to federal and state highways.

## **16. IMPORTS**

16.1. For imports of domestic, wild or foreign birds, the Animal Sanitary Certificate of origin shall be shown in it, it shall be indicated that they come from a country, state, region, farm and/or hatchery free from Avian Salmonellosis.

16.2. For imports of products and by-products of avian origin it will be necessary to show the Animal Sanitary Certificate of Origin and it shall indicate that said products and by-products come from healthy animals, that were inspected before and after their death in Federal Inspection Type enterprises (TIF).

16.3. The Ministry reserves the right to verify by laboratory tests that it so deems necessary, the veracity of the data on the sanitary certificates.

16.4. For exports of domestic, wild and foreign birds, as well as of products and by-products of the same, the exporter shall comply with the requisites established by the importing country.

## **17 SANCTIONS**

The non-compliance with the requirements contained in this Standard shall be sanctioned under the provisions of the Federal Animal Health Act and the Federal Weights, Measures and Standards Act.

## 18. CONCORDANCE WITH INTERNATIONAL STANDARDS

This Mexican Regulatory Standard is not equivalent to any international standard.

## 19. BIBLIOGRAPHY

LABORATORY DIAGNOSIS COURSE FOR THE CAMPAIGN AGAINST NEWCASTLE AND AVIAN SALMONELLOSIS. ANECA. January 1993. 49-63

CODE OF FEDERAL REGULATIONS. Part 1 to 199. Washington, D.C. 1993.

PROTECCION DE LA SALUD ANIMAL Y HUMANA EN LAS INSTALACIONES PECUARIAS Y AVICOLAS. Manual de procedimientos. Agosto. 1983.

DISEASES OF POULTRY. Pomeroy, B.S. and K.V. Nagaraja Fowl Typhoid. Ed Calnek B.W. et al., 9th Ed. Iowa State University Press, Ames, Iowa USA pp87-88, 1991.

INSTRUCTIVO TECNICO PARA LA CAMPAÑA NACIONAL CONTRA LA SALMONELOSIS AVIAR Secretaria de Agricultura y Recursos Hidráulicos. 1991, México, D.F.

## 20. TRANSITORY PROVISIONS

This Standard shall come into effect the following day after its publication in the Official Federal Gazette.

Effective Suffrage. No Reelection.

México, D.F. on the 26th of July of 1994.- The General Law Department, Guillermo Colín Sánchez.- Signature.

**AMENDMENT** of the Mexican Regulatory Standard NOM-005-ZOO-1993, National Avian Salmonellosis Campaign, published on the first of September, 1994.

-----

On page 23, seventh row, it says:

g) Song and ornamental birds:	-Certificate of flock, farm or entreprise free from Avian Salmonellosis.
-------------------------------	--

Should say:

g) Song and ornamental birds:	-Document of evidence of flock, farm or entreprise free from Avian Salmonellosis.
-------------------------------	---

On page 24, first row, it says:

g) Song and ornamental birds:	-Certificate of flock, farm or entreprise free from Avian Salmonellosis.
-------------------------------	--

Should say:

g) Song and ornamental birds:	-Document of evidence of flock, farm or entreprise free from Avian Salmonellosis.
-------------------------------	---

On page 24, fortyfirst row, it says:

g) Song and ornamental birds:	-Certificate of flock, farm or entreprise free from Avian Salmonellosis.
-------------------------------	--

Should say:

g) Song and ornamental birds:	-Document of evidence of flock, farm or entreprise free from Avian Salmonellosis.
-------------------------------	---

Effective Suffrage. No Reelection.

Mexico, D.F., on the 30th of January 1995.- The General Law Director, Samuel Guillen Limongi.- Signature.