



Vaccination control theory and forms

## DRINKING WATER VACCINATION MONITORING FOR LAYER AND BREEDERS

Poultry Corporate Marketing

<b>Reference:</b> MNT05-V12011-EGGS-PCM	<b>Developed by:</b> P. Cruz & R. van Oort
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### OBJECTIVES

- Vaccination via the drinking water is certainly the most commonly used vaccination technique in the field. When controlled well, it produces very good results and requires very little additional equipment. However, the operator must control numerous factors so as to ensure that all the birds receive a complete dose of vaccine.
- The goal of a drinking water vaccination is to deliver to each bird one dose of vaccine solution. This may appear to be the simplest method of live poultry vaccine mass administration; however a drinking water application done correctly is time consuming.
- The use of Cevamune® turns the vaccine solution in an intense blue colour. When vaccinating via the drinking water, this simplifies the monitoring of the distribution of the solution in the building, and its persistence in the drinkers;
- It is advisable to evaluate the vaccinal dose ingested every time vaccination via drinking water is performed. It is particularly advisable when the quality of the vaccination technique is in doubt:
  - If there are clinical cases, post-vaccinal reactions or poor performance despite a correctly-performed vaccination program.
  - If the serological results are heterogeneous.
  - If the drinking water network is worn, deteriorated or if it has recently been modified.



### 1. VACCINATION CONTROL KEYS (CHECK LIST)

#### 1. Water quality

- Use only clean and good quality water
- Water quality analysis is done at least one a year.
- Chlorine was neutralized using Cevamune or skimmed milk powder.
- Vaccine is reconstituted in a sufficient volume of water.



- Drinker space is sufficient to allow free access to the vaccine solution.
- Water deprivation is done to stimulate thirst according to environmental conditions.
- Walking through the house during the vaccination is done to stimulate inactive birds.

## 2. Vaccine handling and preparation

- The cold chain is respected before and during the administration.
- Keep the vaccine solution away from direct sunlight.
- Usage of distilled or de-ionized water.
- Be sure the containers are free of disinfectants (including chlorine), detergents and heavy metals
- Vaccine solution must be consumed within 2 - 3 hours of reconstitution.



## 3. Vaccine intake monitoring

- Sample 100 birds at the end of the vaccination procedures.
- **Ground birds**
- Over 4 groups of 25 birds from different parts of the building including the far end.
- **Birds in cages**
- On 10 birds from 10 cages from different parts and different levels of the building.
- Check birds and marked down birds with coloured tongue/crop
- The crops and tongues of birds that have consumed vaccine solution are temporarily stained blue. The intensity of the colouring is an indication of the volume of water consumed.
- Calculate the percentage of colored birds out of those sample
- A correct vaccination procedure results in at least 90% of chickens colouring blue.



## 3.AUDIT VACCINATION FORM: VACCINATION BY DRINKING WATER

AUDIT VACCINATION FORM VACCINATION BY DRINKING WATER	
Flock N°:	Age of birds:
Date :	Time:
Age of birds:	Respiratory signs:
Vaccine name (Diseases)	Presentation (Number of doses per vial):
Batch number:	Expiry date:
Vaccinator 's names:	Protective clothing used:
Water source	Quantity (ltr) per 1000 birds
Addition of stabilizer Cevamune® or skimmed milk:	Light intensity:
Emptying of water system:	Time of thirsting:
Cleaning of water system:	Visible state of water lines:
Total number of birds scored:	Previous disinfection:
Number of points in house checked:	Length of vaccination process:
% of birds coloured tongue/crop:	Number of refills:
Remarks: ● ● ●	



## ANNEX 1. Vaccine intake monitoring form

**VACCINE INTAKE MONITORING FORM**  
Sample 4 groups of 25 birds from different parts of the building including the far end

**DRINKING WATER  
VACCINATION TECHNIQUE**

G R O U P	n° of Birds																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	T O T A L	
1																											
2																											
3																											
4																											
% of birds successfully vaccinated =																											

Farm..... House..... Date .../.../... Operator/Manager.....