

[www.PigHealthCheck.ie](http://www.PigHealthCheck.ie)

## GUIDE TO VIEWING THE SALMONELLA CONTROL PLAN ON THE PIG HEALTHCHECK DATABASE FOR FARMERS



GUIDTOVIEWSCPDONPHCFORFARM V1 06072022



An Roinn Talmhaíochta,  
Bia agus Mara  
Department of Agriculture,  
Food and the Marine



**Bord Bia**  
Irish Food Board



# GUIDE TO VIEWING THE SALMONELLA CONTROL PLAN ON THE PIG HEALTHCHECK DATABASE FOR FARMERS

## CONTENTS

<b>INTRODUCTION</b>	<b>03</b>
<b>SECTION 1</b> VIEWING THE SEROLOGY DASHBOARD	<b>05</b>
<b>SECTION 2</b> VIEWING THE CULTURE RESULTS	<b>09</b>
<b>SECTION 3</b> VIEWING THE FARM CONTROL PLAN	<b>11</b>

# INTRODUCTION

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For the development of a Farm Salmonella Control Plan the farmer and their attending veterinary practitioner should take into consideration the following :

- The Risk Assessment Tool for *Salmonella*.
- The farm *Salmonella* culture results.
- The farm *Salmonella* meat juice ELISA scores.

Your Salmonella Questionnaire and Biosecurity Questionnaire will feed into the Risk Assessment Tool for *Salmonella* for your farm. This tool will identify weak areas on the farm and help you and your veterinary practitioner develop the Salmonella Farm Control Plan.

Environmental faecal samples of pens with fattening pigs will be taken by your attending veterinary practitioner while doing the Biosecurity Assessment. These samples will be tested and the type of *Salmonella* identified if present ([click here](#) to access the information leaflet Diagnostic Tests for Salmonella). If any of these samples show *Salmonella* Typhimurium or monophasic *Salmonella* Typhimurium, further sampling will be required from the other production stages on the farm (a farrow to finish farm or weaner to finisher farm). It is important to know what type(s) of *Salmonella* is detected on your farm so you can implement appropriate control measures. *Salmonella* Typhimurium and monophasic *Salmonella* Typhimurium are *Salmonella* types that are quite persistent in the environment and will have multiple drug resistance (i.e. they are resistant to more than three antibiotics)([click here](#) to access the information leaflet Salmonella in Pig Production).

One of the tests undertaken for *Salmonella* is meat juice ELISA test and the scores from these tests are an indirect measurement of *Salmonella* on your farm. Looking at your scores over the last 3 years will help you to identify the times of the year, if any, when control of *Salmonella* is not up to standard and more attention is required during these times.

You are strongly encouraged to use all the information available to you on the database to develop and review your Salmonella Farm Action Plan on an annual basis.

# INTRODUCTION

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)

- ① **LOGIN** to the Pig HealthCheck (PHC) database.
- For the initial registration, you must set up your password using the link below <https://pigs.icbf.com/forgot-password>.
  - From here enter your email address, username, and click **SUBMIT**. Your username is your herd number.
  - Once set up, you should receive an email which will contain a link to complete the process. When you click on the link, it will confirm your email address and bring you to a screen whereby you can create your own password. Once you have created your own password you will then be able to log into the application using your username and password.

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)



**Sign In**

*Pig HealthCheck is an Animal Health Ireland-led programme co-funded by pig producers and DAFM, with the aim of improving the profitability and sustainability of the Irish pig industry through improved animal health.*

**Sign-in to see your herd data**

User Name \*

Password \*

**1**

**Sign In** [Forgot Password](#)

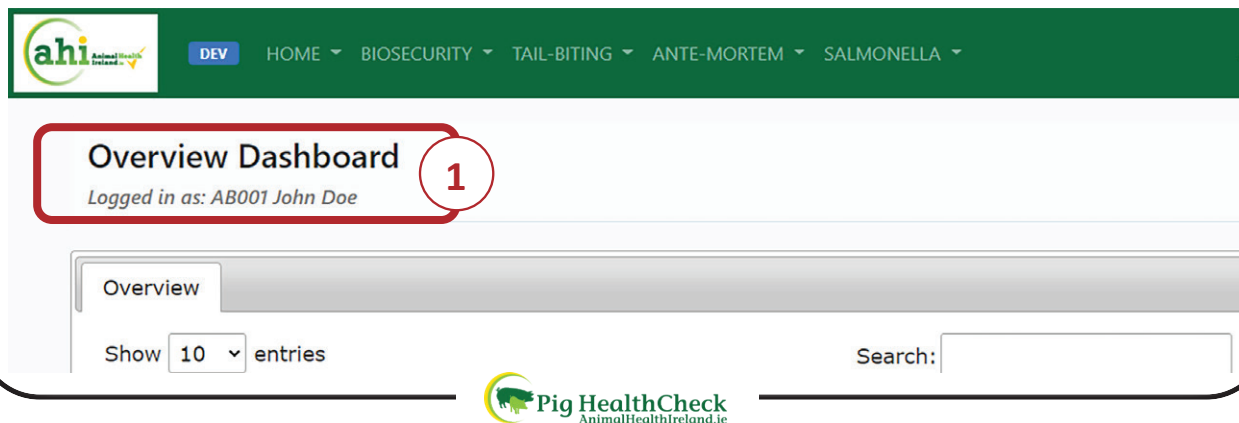
**Pig HealthCheck**  
AnimalHealthIreland.ie

# VIEWING THE SEROLOGY DASHBOARD

www.pighealthcheck.ie

- When you access the database for the first time you will be asked to accept the Terms and Conditions and once accepted you will then see the ① **OVERVIEW DASHBOARD**.

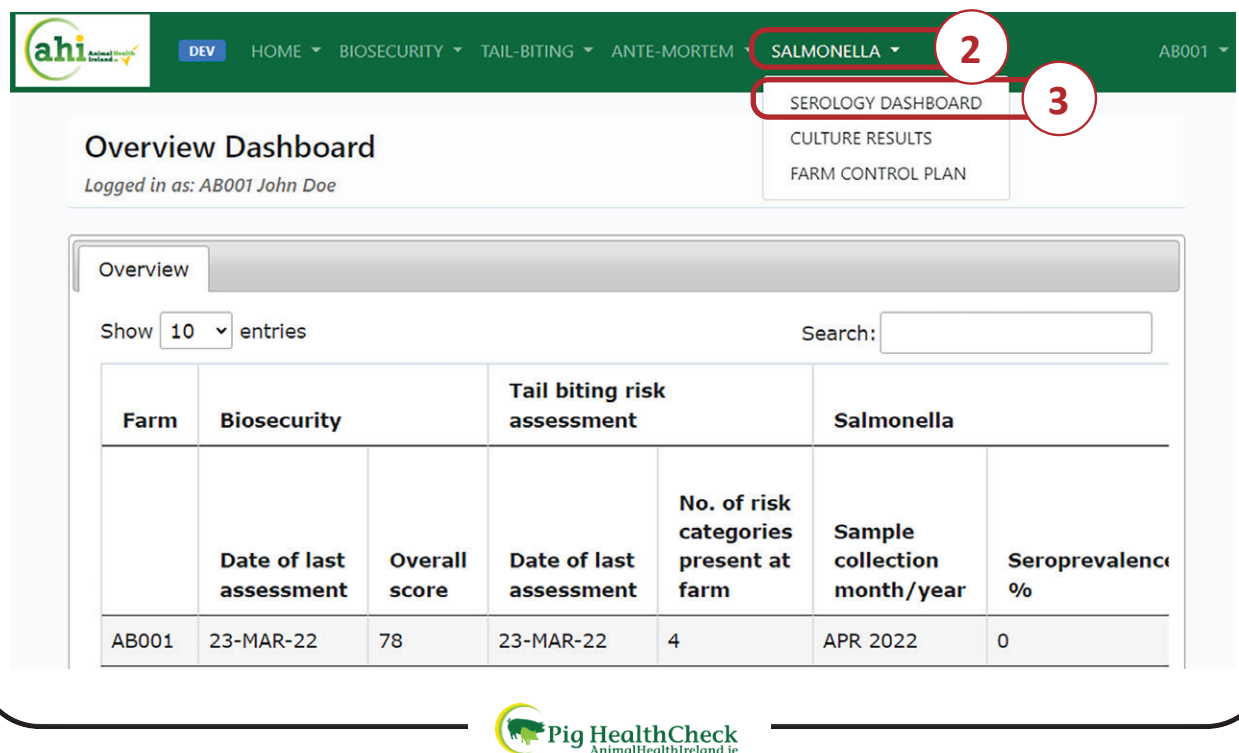
## Overview Dashboard



The screenshot shows the top navigation bar with the 'ahi' logo and a 'DEV' button. The main menu includes 'HOME', 'BIOSECURITY', 'TAIL-BITING', 'ANTE-MORTEM', and 'SALMONELLA'. The 'Overview Dashboard' title is highlighted with a red box and a red circle containing the number 1. Below the title, it says 'Logged in as: AB001 John Doe'. There is a 'Show 10 entries' dropdown and a search bar. The 'Pig HealthCheck' logo is at the bottom.

- Click on the ② **SALMONELLA** dropdown menu then click on ③ **SEROLOGY DASHBOARD**.

## Overview Dashboard



The screenshot shows the 'SALMONELLA' dropdown menu open, with 'SEROLOGY DASHBOARD' highlighted. The 'SALMONELLA' dropdown is highlighted with a red box and a red circle containing the number 2. The 'SEROLOGY DASHBOARD' option is highlighted with a red box and a red circle containing the number 3. Below the dropdown, the 'Overview Dashboard' title is visible, along with 'Logged in as: AB001 John Doe'. There is a 'Show 10 entries' dropdown and a search bar. The table below shows data for Farm AB001.

Farm	Biosecurity		Tail biting risk assessment		Salmonella	
	Date of last assessment	Overall score	Date of last assessment	No. of risk categories present at farm	Sample collection month/year	Seroprevalence %
AB001	23-MAR-22	78	23-MAR-22	4	APR 2022	0



## VIEWING THE SEROLOGY DASHBOARD

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)

- The Serology Dashboard displays two headings with the first being ① **OVER TIME**. This screen will show your farm *Salmonella* serology score for the previous three years. The opening screen will show your *Salmonella* serology score from November 2020. Your farm results will appear in black, while the national average and the national median will appear in blue and purple respectively. The background colours in the graph indicate ranges of scores of 10% and below (green), over 10% to 50% (yellow), over 50% to 70% (orange) or over 70% (red). According to the National Salmonella Control Programme (NSCP) pigs from farms with scores over 50% must be slaughtered at the end of the day or on a separate day.
- The national average is calculated by adding up all the scores of all farms participating as part of the NSCP at each month and then dividing by the total number of farms in the NSCP. While the median is the mid-point score when all of the scores for all the farms are ranked in order, i.e. 50% of the farms in the NSCP have a score lower than the median score while the other 50% have a score higher than the median score, see example below.

Example:

Farm 1 score: 50%

Farm 2 score: 15%

Farm 3 score: 25%

Farm 4 score: 0%

Farm 5 score: 75%

Average:

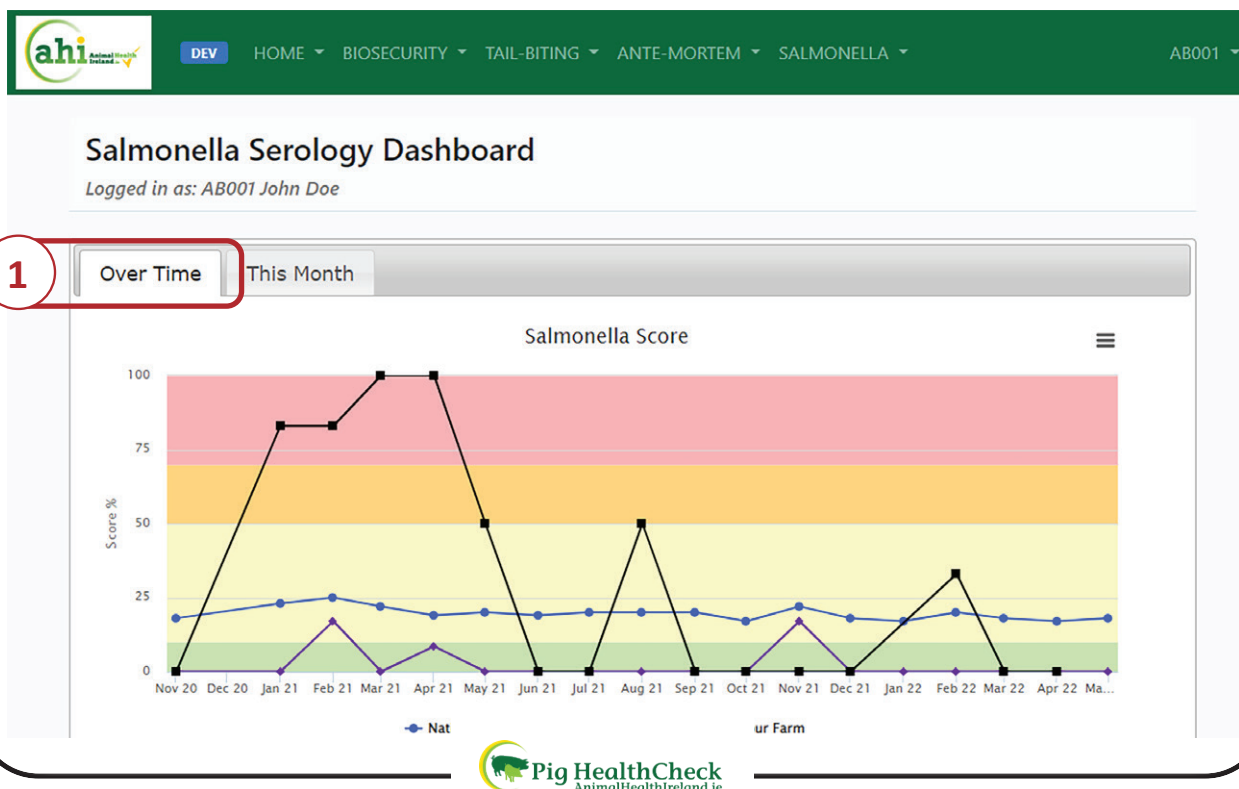
$(50+15+25+0+75)/5 = 33$

Median:

Rank of farms scores: 0, 15, 25, 50, 75

Mid- point = 25

### Salmonella Serology Dashboard

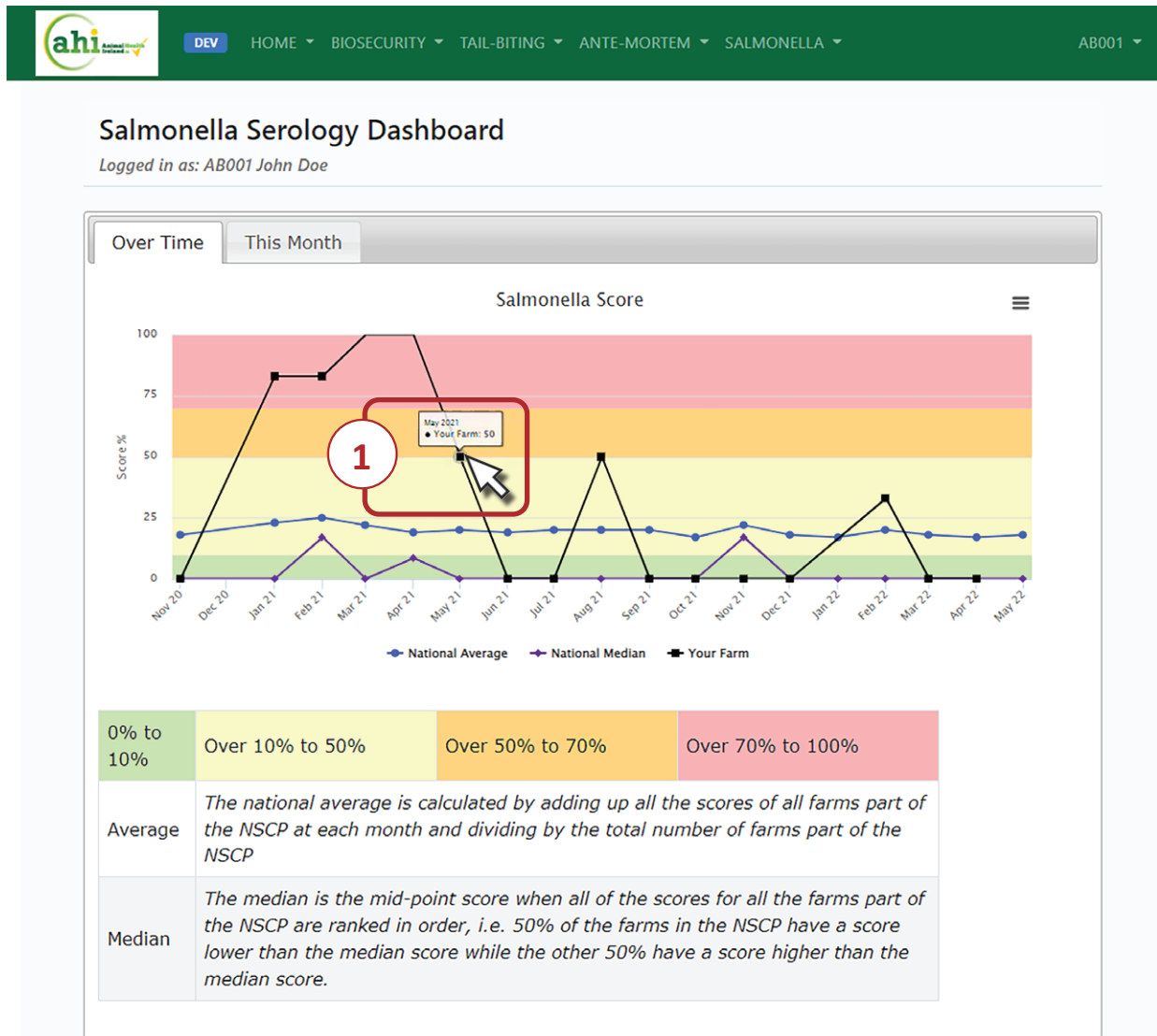


# VIEWING THE SEROLOGY DASHBOARD

www.pighealthcheck.ie

- By hovering over a point in the graph you can see the ① **EXACT VALUE**.

## Salmonella Serology Dashboard

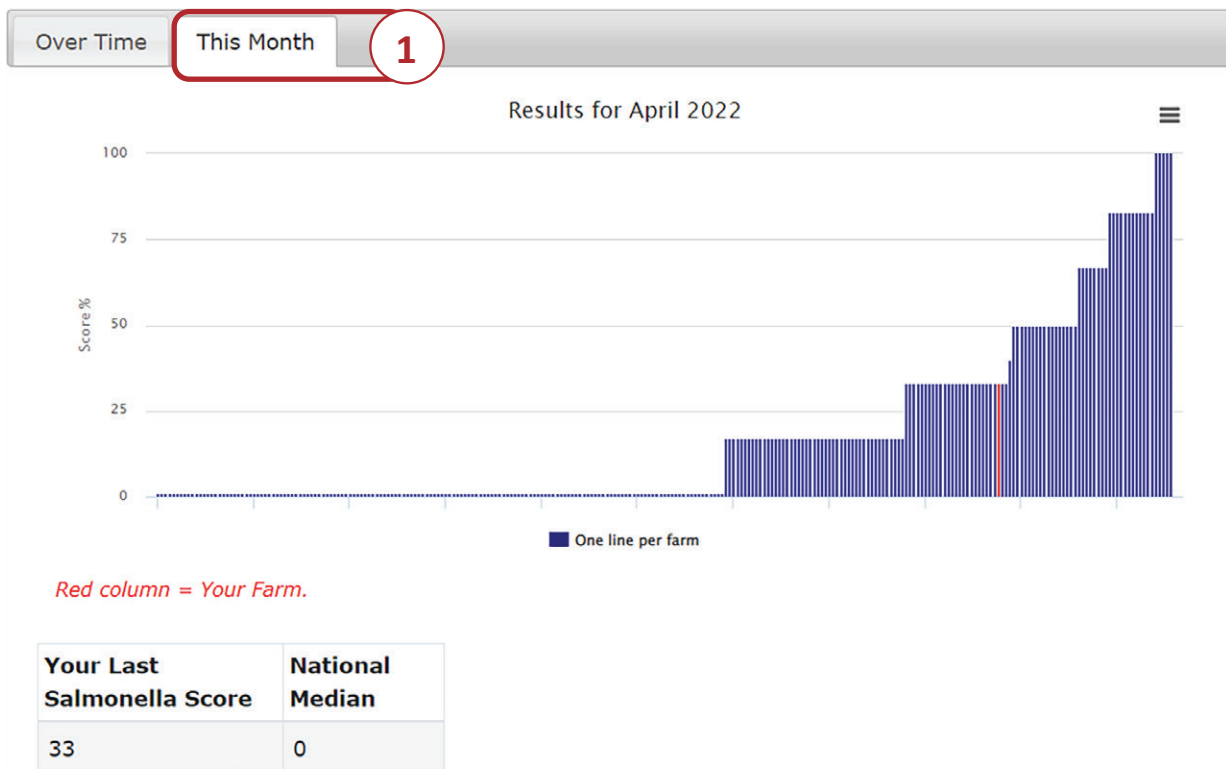


## VIEWING THE SEROLOGY DASHBOARD

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)

- The second tab is ① **THIS MONTH**. This screen shows the *Salmonella* serology score for your farm from the previous month compared to the scores for all farms that are part of the National Salmonella Control Programme. Your score will be highlighted in red, with the other farm scores will be highlighted in blue.

### Salmonella Serology Dashboard





# VIEWING THE CULTURE RESULTS

www.pighealthcheck.ie

- Click on the ① **SALMONELLA** dropdown menu then click on ② **CULTURE RESULTS**.

## Overview Dashboard

The screenshot shows the 'Overview Dashboard' for user 'AB001 John Doe'. In the top navigation bar, the 'SALMONELLA' dropdown menu is highlighted with a red circle and the number 1. The dropdown menu is open, showing three options: 'SEROLOGY DASHBOARD', 'CULTURE RESULTS' (highlighted with a red circle and the number 2), and 'FARM CONTROL PLAN'. Below the navigation bar, the 'Overview' tab is selected, and a table displays data for farm 'AB001'.

Farm	Biosecurity	Tail biting risk assessment			Salmonella	
	Date of last assessment	Overall score	Date of last assessment	No. of risk categories present at farm	Sample collection month/year	Seroprevalence %
AB001	23-MAR-22	78	23-MAR-22	4	APR 2022	0



- A new screen will appear with the results for each pool of samples collected on your farm. The ③ **RESULT** column will indicate if *Salmonella* was detected or not and if detected the ④ **SEROTYPE** column will show what serotype was isolated. The column ⑤ **SAMPLE CONDITION** will also let you know if the sample was received by the laboratory in good condition or not.
- If you want to see more details in relation to pools of samples, click on one of the ⑥ **BARCODES** and the details for that barcode will appear in a new screen.

## Culture Results

The screenshot shows the 'Salmonella Culture Results' screen for user 'AB001 John Doe'. A table displays culture results for two samples. The columns are: 'Herd', 'Name', 'Sample Date', 'Barcode' (highlighted with a red circle and the number 6), 'Receipt Date', 'Sample Condition' (highlighted with a red circle and the number 5), 'Result' (highlighted with a red circle and the number 3), and 'Serotype' (highlighted with a red circle and the number 4). A 'CSV' button is located at the top left of the table.

Herd	Name	Sample Date	Barcode	Receipt Date	Sample Condition	Result	Serotype
AB001	John Doe	01-JUN-22	100000181	02-JUN-22	GOOD	DETECTED	MONOPHASIC S. TYPHIMURIUM
AB001	John Doe	01-JUN-22	100000182	02-JUN-22	GOOD	NOT DETECTED	



# VIEWING THE CULTURE RESULTS

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)

## Culture Results Details

### Salmonella Culture Result Details

Logged in as: AB001 John Doe

Herd Number:	AB001
Name:	John Doe
Barcode:	100000192
Visit Date:	15-JUN-22
Herd Type:	INTEGRATED

House	Room	Pen	Pig Type	Production Stage
bb	1	1	WEANERS	WEANERS STAGE 1
bb	1	3	WEANERS	WEANERS STAGE 1
bb	1	5	WEANERS	WEANERS STAGE 1
bb	1	7	WEANERS	WEANERS STAGE 1
bb	1	9	WEANERS	WEANERS STAGE 1



# VIEWING THE FARM CONTROL PLAN

www.pighealthcheck.ie

- Click on the ① **SALMONELLA** dropdown menu then click on ② **FARM CONTROL PLAN**.

## Overview Dashboard

The screenshot shows the 'Overview Dashboard' for 'AB001 John Doe'. The top navigation bar is green with the 'ahi' logo and a 'DEV' button. The main navigation menu includes 'HOME', 'BIOSECURITY', 'TAIL-BITING', 'ANTE-MORTEM', 'SALMONELLA', and 'AB001'. The 'SALMONELLA' dropdown menu is open, showing 'SEROLOGY DASHBOARD', 'CULTURE RESULTS', and 'FARM CONTROL PLAN'. The 'FARM CONTROL PLAN' option is highlighted with a red circle and the number 2. The 'Overview' tab is selected, and the 'Show 10 entries' dropdown is visible. The table below shows data for farm AB001.

Farm	Biosecurity		Tail biting risk assessment		Salmonella	
	Date of last assessment	Overall score	Date of last assessment	No. of risk categories present at farm	Sample collection month/year	Seroprevalence %
AB001	23-MAR-22	78	23-MAR-22	4	APR 2022	0



# VIEWING THE FARM CONTROL PLAN

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)

- The Farm Control Plan landing page displays four headings. The first is the **③ CONTROL PLAN** where the measures agreed by you in consultation with your veterinary practitioner are displayed. These include three recommendations to be addressed in the short to medium term and two recommendations to be addressed in the longer term.
- For each measure, it has been identified how it will be measured, the person responsible and an agreed completion date. Also included in the plan are measures that you are already doing that prevents or reduces *Salmonella* at farm level and that you are planning on continuing to do.
- The Farm Control Plan will only be completed after the other steps (Risk Assessment Tool and *Salmonella* Culture) are completed; therefore, this screen will not show any recommendations until that information is uploaded and you and the attending veterinary practitioner have agreed the measures.

Farm Control Plan landing page

**Salmonella Recommendations 2022**  
Control Plan Available Below Scores and Chart

**3** Control Plan Risk Assessment Salmonella Serology Salmonella Culture

Herd Number	AB001
Herd Name	JOHN DOE
Herd Address	MAIN STREET, TOWN, COUNTY, IRELAND
Completed By	JOHN DOE
Salmonella Code	2022

Recommendations	How to measure it?	Implemented by whom?	Implemented by when?
Clean and disinfect weaners stage 1 after each batch	check list	Farmer	december 2022
Provide organic acids to finishers	record amount each time	farmer	november 2022

**What you are already doing that prevents/reduces Salmonella at farm level and should carry on doing?**

carry on cleaning and disinfecting the finisher pens after each batch

continue with the rodent control programme

continue not sourcing animals from other farms

# VIEWING THE FARM CONTROL PLAN

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)

- The second heading is ① **RISK ASSESSMENT**. The Risk Assessment Tool for *Salmonella* has six sections:
  - Internal biosecurity (all measures to prevent and reduce the spread of infection between the several sections of the farm).
  - Organic acids (adding organic acids to feed and or water).
  - Feed (the type of feed).
  - Vaccines (use of vaccines against *Salmonella* and Ileitis).
  - Disease (status of the farm for other diseases such as PRRS, swine dysentery, post-weaning diarrhoea).
  - External Biosecurity (all measures to prevent and reduce the introduction of infection on the farm).
- Each section contributes to the total score, with some being weighted more heavily than others. A higher weight is provided to Internal Biosecurity. The lower the total score, the higher is the risk for *Salmonella*.
- All scores that are below 50% are highlighted in red. These areas should be prioritised for improvement at farm level.

Farm Control Plan landing page

## Salmonella Recommendations 2022

Control Plan Available Below and Chart

1	
Control Plan	
Risk Assessment	
Salmonella Serology	
Salmonella Culture	
Section	Score
INTERNAL BIOSECURITY	47
FEED	64
VACCINATION	50
DISEASE	42
EXTERNAL BIOSECURITY	25
TOTAL	37

Red = Result less than 50%.





## VIEWING THE FARM CONTROL PLAN

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- The third heading is ① **SALMONELLA SEROLOGY** which displays the same graph as the *Salmonella* serology dashboard. (Refer to explanation above).

Farm Control Plan landing page

### Salmonella Recommendations 2022

Control Plan Available Below Scores and Chart

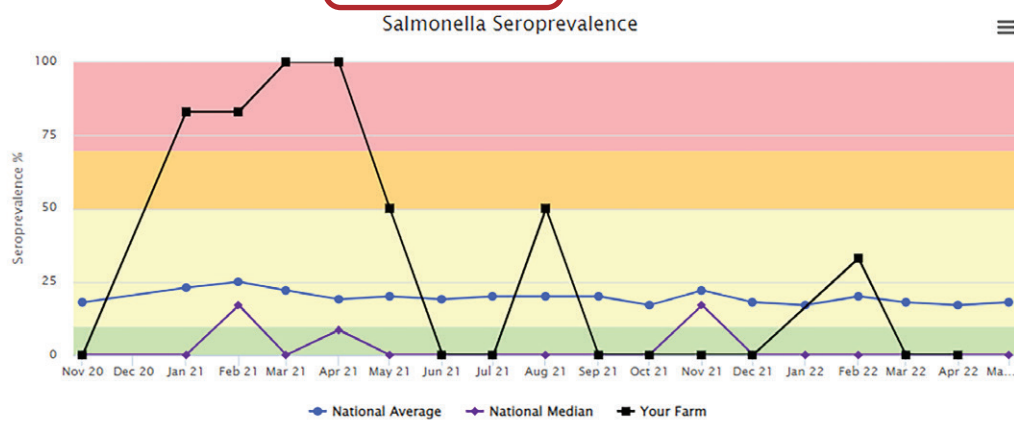
Control Plan

Risk Assessment

Salmonella Serology

Salmonella Culture

1



0% to 10%

Over 10% to 50%

Over 50% to 70%

Over 70% to 100%

# VIEWING THE FARM CONTROL PLAN

[www.pighealthcheck.ie](http://www.pighealthcheck.ie)

- The last heading is ① **SALMONELLA CULTURE** The results of the culture of the environmental samples (pen faecal samples) are displayed here. For most of the farms, five pooled samples will have been collected and sent to the laboratory to be tested for *Salmonella* (the number of samples varies depending on the farm size). The results are shown for the finisher pens – monitoring sampling. If *Salmonella* is not detected the result will show as non-detected. If *Salmonella* is detected the result will show the type of *Salmonella* that was detected. If any of the finisher pens samples show *Salmonella* Typhimurium and or monophasic *Salmonella* Typhimurium, further sampling – cross-sectional- will be required from the other production stages on the farm (gilts, dry sows, hospital pens, weaners stage 1 and weaners stage 2). The table 'Other sections in the farm' will show the results for that sampling.

Farm Control Plan landing page

## Salmonella Recommendations 2022

Control Plan Available Below Scores and Chart

Control Plan	Risk Assessment	Salmonella Serology	Salmonella Culture
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Finisher Pens	
Pool 1	DETECTED
Pool 2	NOT DETECTED
Pool 3	NOT DETECTED
Pool 4	NOT DETECTED
Pool 5	NOT DETECTED

Other sections in the farm		
Pool 1	GILTS	NOT DETECTED
Pool 2	GILTS	NOT DETECTED
Pool 3	SOWS	NOT DETECTED
Pool 4	SOWS	NOT DETECTED
Pool 5	W	DETECTED
Pool 7	WEANERS	DETECTED
Pool 8	WEANERS	NOT DETECTED
Pool 9	WEANERS	NOT DETECTED
Pool 10	WEANERS	NOT DETECTED

Most recently recorded culture results.



**NOTE** If you have any problem accessing the PHC database, please contact AHL by email ([pigs@animalhealthireland.ie](mailto:pigs@animalhealthireland.ie)) or phone (+353 (0) 71 9671928) to resolve the issue.



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