

Antimicrobial Resistance Surveillance in Food Animals

Pigs

	2020	2021	2022	2023
Number of samples ¹ collected	152	204	195	186
Samples positive for suspected extended spectrum beta-lactamase (ESBL)-producing ² <i>E. coli</i>	4 (2.6%)	4 (2.0%)	6 (3.1%)	8 (4.3%)
Samples positive for carbapenem-resistant ³ <i>E. coli</i>	0 (0%)	0 (0%)	1 (0.5%)	0 (0%)
Samples positive for vancomycin-resistant Enterococcus (VRE) ⁴	0 (0%)	0 (0%)	0 (0%)	0 (0%)

¹Samples collected were faecal samples and cultured on non-selective media

²Suspected ESBL is determined by resistance to ceftiofur (3rd generation cephalosporin)

³Carbapenem-resistance is determined by resistance to meropenem

⁴Culturing of Enterococcus was performed using enrichment medium.

Chickens

	2020	2021	2022	2023
Number of samples ¹ collected	61	207	195	189
Samples positive for suspected extended spectrum beta-lactamase (ESBL)-producing ² <i>E. coli</i>	9 (14.8%)	50 (24.2%)	38 (19.5%)	34 (18.0%)
Samples positive for carbapenem-resistant ³ <i>E. coli</i>	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Samples positive for vancomycin-resistant Enterococcus (VRE) ⁴	0 (0%)	0 (0%)	0 (0%)	0 (0%)

¹Samples collected were cloacal swabs and faecal samples, and cultured on non-selective media

²Suspected ESBL is determined by resistance to ceftiofur (3rd generation cephalosporin)

³Carbapenem-resistance is determined by resistance to meropenem

⁴Culturing of Enterococcus was performed using enrichment medium.

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Marine Fish

	2020	2021	2022	2023
Number of samples ¹ collected	63	89	65	65
Samples positive for suspected extended spectrum beta-lactamase (ESBL)-producing ² <i>Vibrio</i> spp. ³	0 (0%)	0 (0%)	1 (1.5%)	0 (0%)
Samples positive for carbapenem-resistant <i>Vibrio</i> spp. ³	0 (0%)	0 (0%)	0 (0%)	0 (0%)

¹Samples collected were fish slime samples and cultured on differential media to isolate *Vibrio* spp.

²Suspected ESBL is determined by resistance to ceftazidime (3rd generation cephalosporin)

³Only *Vibrio* spp. is shown as there are no available breakpoints to determine susceptibility of *Photobacterium* spp.

Pond Fish

	2020	2021	2022	2023
Number of samples ¹ collected	16	44	50	45
Samples positive for suspected extended spectrum beta-lactamase (ESBL)-producing ² <i>Aeromonas</i> spp.	0 (0%)	0 (0%)	0 (0%)	1 (2.2%)
Samples positive for carbapenem-resistant <i>Aeromonas</i> spp.	1 (6.3%)	2 (4.5%)	0 (0%)	0 (0%)

¹Samples collected were fish slime samples and cultured on differential media to isolate *Aeromonas* spp.

²Suspected ESBL is determined by resistance to ceftazidime (3rd generation cephalosporin)