

## Annex D – Antimicrobial resistance in indicator *E. coli*

### Annex to:

EFSA (European Food Safety Authority) and ECDC (European Centre for Disease Prevention and Control), 2021. **The European Union Summary Report on Antimicrobial Resistance in zoonotic and indicator bacteria from humans, animals and food in 2018/2019.** EFSA Journal 2021;19(4):6490, doi:10.2903/j.efsa.2021.6490

© 2021 European Food Safety Authority. *EFSA Journal* published by John Wiley and Sons Ltd on behalf of European Food Safety Authority.

## Annex D - Antimicrobial resistance in indicator *Escherichia coli* from food-producing animals

**Table 1:** Occurrence of resistance (%) to selected antimicrobials in indicator *Escherichia coli* from fattening pigs, using harmonised ECOFFs, 28 EU MSs and 4 non-MSs, 2019

Country	N	GEN	CHL	AMP	CTX	CAZ	MEM	TGC	NAL	CIP	AZM	COL	SMX	TMP	TET	CS	MDR	Resistance to both CIP/CTX, applying ECOFFs	Resistance to both CIP/CTX, applying CBPs
Austria	174	2.3	6.9	24.1	1.1	1.1	0	0	0.6	2.3	0.6	0	29.9	17.2	43.7	39.7	20.1	0	0
Belgium	175	0.6	19.4	38.9	0.6	0.6	0	0	2.3	9.1	1.7	0	39.4	35.4	36	41.7	34.3	0.6	0
Bulgaria	104	1	36.5	59.6	0	0	0	0	10.6	16.3	1	0	66.3	36.5	75	11.5	58.7	0	0
Croatia	85	2.4	11.8	38.8	1.2	1.2	0	0	11.8	16.5	2.4	0	41.2	31.8	47.1	42.4	37.6	0	0
Cyprus	34	2.9	44.1	73.5	0	0	0	0	2.9	5.9	14.7	0	88.2	85.3	94.1	0	85.3	0	0
Czechia	313	0.3	7	31.6	1.3	1.3	0	0	1.6	2.6	1.3	0	23.3	14.4	36.7	46.3	20.4	0	0
Denmark	190	1.1	5.8	35.3	0	0	0	0	1.1	2.6	1.1	0	44.2	28.9	34.7	42.1	31.1	0	0
Estonia	71	0	2.8	25.4	1.4	1.4	0	0	0	5.6	0	0	22.5	25.4	32.4	57.7	21.1	0	0
Finland	174	0	1.7	9.2	0.6	0.6	0	0	1.1	1.7	0	0	12.6	8	13.8	77.6	8	0	0
France	188	2.7	7.4	30.3	1.1	1.1	0	0	3.7	4.3	0.5	1.1	35.1	29.8	51.1	29.8	28.2	0	0
Germany	246	0.8	10.2	35.4	3.3	2.8	0	0	4.9	8.5	1.6	0	32.5	26.8	35.4	47.2	29.3	1.6	0
Greece	146	4.8	46.6	65.8	1.4	1.4	0	0	8.9	17.8	4.1	3.4	67.8	58.2	81.5	14.4	69.9	1.4	0
Hungary	170	4.7	11.2	48.8	1.8	1.2	0	0	6.5	12.9	0.6	1.2	31.8	24.1	51.2	29.4	30	0	0
Ireland	170	2.4	6.5	35.9	1.2	1.2	0	0	4.1	5.3	2.4	0	45.3	37.6	57.1	32.4	38.2	0	0
Italy	169	11.2	45.6	71.6	0.6	0.6	0	0	12.4	24.3	1.2	0.6	68.6	59.2	74.6	10.7	70.4	0.6	0
Latvia	152	2.6	7.2	28.9	0.7	0.7	0	0	2	11.2	0	0	34.2	22.4	31.6	46.1	23	0	0
Lithuania	99	3	5.1	24.2	0	0	0	0	10.1	14.1	0	0	27.3	19.2	32.3	56.6	23.2	0	0
Luxembourg	37	0	16.2	45.9	0	0	0	0	0	10.8	0	0	35.1	21.6	45.9	37.8	27	0	0
Malta	71	7	14.1	23.9	1.4	1.4	0	2.8	7	19.7	2.8	0	45.1	35.2	71.8	18.3	38	1.4	1.4
Netherlands	304	2	11.8	21.4	0	0	0	0	0.7	1	0.7	0	31.9	26	41.8	44.7	24.3	0	0
Poland	175	3.4	21.7	52.6	0.6	0.6	0	0	12	20.6	0	0	47.4	37.7	60	27.4	43.4	0.6	0
Portugal	156	3.2	47.4	73.1	5.1	4.5	0	0	14.7	26.3	14.1	8.3	71.2	56.4	89.7	3.8	74.4	4.5	1.9

## EUSR on AMR in zoonotic and indicator bacteria from humans, animals and food 2018/2019

Romania	170	7.1	40.6	74.1	5.9	5.9	0	0	17.1	39.4	5.3	0	62.9	44.7	61.2	14.1	67.6	2.9	0.6
Slovakia	85	3.5	23.5	61.2	0	0	0	0	9.4	12.9	1.2	0	55.3	49.4	74.1	20	55.3	0	0
Slovenia	85	2.4	16.5	23.5	3.5	3.5	0	0	3.5	14.1	1.2	0	23.5	11.8	36.5	48.2	22.4	0	0
Spain	170	5.9	45.9	74.7	1.8	1.8	0	0	20	45.9	4.1	0.6	65.9	63.5	77.6	5.9	76.5	1.2	0.6
Sweden	174	0	1.7	19	0	0	0	0	1.1	1.1	0	0	18.4	14.9	12.6	71.3	10.9	0	0
United Kingdom	208	1.4	16.3	36.1	2.4	2.4	0	0	1	3.4	0.5	0	42.8	39.9	58.7	29.3	39.4	0.5	0
<b>Total (MSs)</b>	<b>4295</b>	<b>2.7</b>	<b>17.7</b>	<b>40.5</b>	<b>1.4</b>	<b>1.3</b>	<b>0</b>	<b>0</b>	<b>5.8</b>	<b>11.8</b>	<b>1.9</b>	<b>0.6</b>	<b>41.1</b>	<b>32.5</b>	<b>49.4</b>	<b>35.6</b>	<b>37.3</b>	<b>0.6</b>	<b>0.1</b>
<b>Median (MSs)</b>	<b>-</b>	<b>2.4</b>	<b>12.95</b>	<b>36</b>	<b>1.1</b>	<b>1.1</b>	<b>0</b>	<b>0</b>	<b>3.9</b>	<b>11</b>	<b>1.15</b>	<b>0</b>	<b>40.3</b>	<b>30.8</b>	<b>49.1</b>	<b>35.1</b>	<b>32.7</b>	<b>0</b>	<b>0</b>
Iceland	14	0	7.1	21.4	0	0	0	0	0	0	0	0	21.4	28.6	28.6	64.3	21.4	0	0
Norway	285	0.4	0.4	4.2	0	0	0	0	0	0	0	0	4.9	4.6	2.5	91.2	2.8	0	0
Rep. of North Macedonia	19	0	15.8	36.8	0	0	0	0	5.3	21.1	0	0	26.3	10.5	63.2	31.6	31.6	0	0
Switzerland	189	1.1	1.6	12.7	0	0	0	0	2.6	2.6	0	0	30.2	12.7	21.2	58.7	12.2	0	0
<b>Total (MSs and non-MSs)</b>	<b>4802</b>	<b>2.5</b>	<b>16</b>	<b>37.2</b>	<b>1.2</b>	<b>1.2</b>	<b>0</b>	<b>0</b>	<b>5.3</b>	<b>10.7</b>	<b>1.7</b>	<b>0.5</b>	<b>38.4</b>	<b>29.9</b>	<b>45.5</b>	<b>39.8</b>	<b>34.2</b>	<b>0.5</b>	<b>0.1</b>
<b>Median (MSs and non-MSs)</b>	<b>-</b>	<b>2.4</b>	<b>11.8</b>	<b>35.7</b>	<b>0.7</b>	<b>0.7</b>	<b>0.0</b>	<b>0.0</b>	<b>3.6</b>	<b>10.0</b>	<b>0.9</b>	<b>0.0</b>	<b>35.1</b>	<b>28.8</b>	<b>46.5</b>	<b>38.8</b>	<b>30.6</b>	<b>0.0</b>	<b>0.0</b>

ECOFFs: epidemiological cut-off values; MS: Member States; N: number of isolates tested; GEN: gentamicin, CHL: chloramphenicol; AMP: ampicillin; CTX: cefotaxime; CAZ: Ceftazidime; MEM: meropenem; TGC: tigecycline, NAL: nalidixic acid; CIP: ciprofloxacin; AZM: azithromycin; COL: colistin; SMX: sulfamethoxazole; TMP: trimethoprim; TET: tetracycline. CS: complete susceptibility; MDR: multidrug resistance (MDR). For descriptions of the analysis of MDR, CS and co-resistance see Annex A 'Materials and Methods'.

**Table 2:** Occurrence of resistance (%) to selected antimicrobials in indicator *Escherichia coli* from calves under 1 year of age, using harmonised ECOFFs, 10 EU MSs, 2019

Country	N	GEN	CHL	AMP	CTX	CAZ	MEM	TGC	NAL	CIP	AZM	COL	SMX	TMP	TET	CS	MDR	Resistance to both CIP/CTX, applying ECOFFs	Resistance to both CIP/CTX, applying CBPs
Belgium	172	5.2	31.4	66.9	2.3	2.3	0	0	12.2	24.4	4.1	2.3	61	50	73.3	19.8	62.2	1.2	0
Croatia	84	3.6	10.7	13.1	0	0	0	0	7.1	7.1	0	0	32.1	11.9	27.4	63.1	15.5	0	0
Denmark	172	0.6	5.8	6.4	0	0	0	0	0	0	0	0	9.3	1.2	11.6	87.2	6.4	0	0
France	153	6.5	20.3	35.3	0	0	0	0	5.9	6.5	3.9	0.7	45.8	28.8	54.9	39.9	40.5	0	0
Germany	217	2.8	10.1	33.6	2.3	1.8	0	0	5.5	12.4	2.8	0.5	27.6	27.2	37.3	53	30.9	0.5	0
Italy	169	20.1	36.1	63.9	4.1	4.1	0	0	21.9	46.2	3	1.8	71	65.1	79.9	14.8	73.4	3	0.6
Netherlands	294	1.7	12.6	20.1	0	0	0	0	1.4	3.4	0	0	20.7	16.7	43.2	54.8	20.7	0	0
Portugal	174	1.7	10.9	9.8	2.3	1.7	0	0	4	5.7	0	0	14.9	5.2	21.8	77	12.1	2.3	1.1
Spain	170	3.5	16.5	21.8	0.6	0.6	0	0	5.3	8.2	0.6	0.6	41.8	18.2	51.8	44.1	31.2	0.6	0
<b>Total (MSs)</b>	<b>1605</b>	<b>4.8</b>	<b>16.9</b>	<b>30.2</b>	<b>1.3</b>	<b>1.2</b>	<b>0</b>	<b>0</b>	<b>6.5</b>	<b>12.3</b>	<b>1.6</b>	<b>0.6</b>	<b>34.6</b>	<b>24.9</b>	<b>45</b>	<b>50.3</b>	<b>32.3</b>	<b>0.8</b>	<b>0.2</b>
<b>Median (MSs)</b>	<b>-</b>	<b>3.5</b>	<b>12.6</b>	<b>21.8</b>	<b>0.6</b>	<b>0.6</b>	<b>0.0</b>	<b>0.0</b>	<b>5.5</b>	<b>7.1</b>	<b>0.6</b>	<b>0.5</b>	<b>32.1</b>	<b>18.2</b>	<b>43.2</b>	<b>53.0</b>	<b>30.9</b>	<b>0.5</b>	<b>0.0</b>
Norway	314	0.3	0.3	2.2	0.3	0.3	0	0	0	0	0.3	0	3.2	0.6	2.2	93.6	0.3	0	0
Rep. of North Macedonia	18	5.6	11.1	22.2	5.6	5.6	0	0	0	5.6	0	0	33.3	5.6	38.9	44.4	11.1	5.6	5.6
Switzerland	199	4	7	26.1	1	1	0	0	4	4.5	0.5	0	31.2	13.1	36.2	60.3	25.6	0	0
<b>Total (MSs and non-MSs)</b>	<b>2136</b>	<b>4.1</b>	<b>13.5</b>	<b>25.7</b>	<b>1.2</b>	<b>1.1</b>	<b>0</b>	<b>0</b>	<b>5.3</b>	<b>9.7</b>	<b>1.3</b>	<b>0.5</b>	<b>29.7</b>	<b>20.1</b>	<b>37.8</b>	<b>57.6</b>	<b>26.8</b>	<b>0.7</b>	<b>0.2</b>
<b>Median (MSs and non-MSs)</b>	<b>-</b>	<b>3.6</b>	<b>11.0</b>	<b>22.0</b>	<b>0.8</b>	<b>0.8</b>	<b>0.0</b>	<b>0.0</b>	<b>4.7</b>	<b>6.1</b>	<b>0.4</b>	<b>0.0</b>	<b>31.7</b>	<b>14.9</b>	<b>38.1</b>	<b>53.9</b>	<b>23.2</b>	<b>0.3</b>	<b>0.0</b>

ECOFFs: epidemiological cut-off values; MSs: Member States; N: number of isolates tested; GEN: gentamicin, CHL: chloramphenicol; AMP: ampicillin; CTX: cefotaxime; CAZ: Ceftazidime; MEM: meropenem; TGC: tigecycline, NAL: nalidixic acid; CIP: ciprofloxacin; AZM: azithromycin; COL: colistin; SMX: sulfamethoxazole; TMP: trimethoprim; TET: tetracycline. CS: complete susceptibility; MDR: multidrug resistance (MDR). For descriptions of the analysis of MDR, CS and co-resistance see Annex A 'Materials and Methods'.

**Table 3:** Occurrence of resistance (%) to selected antimicrobials in indicator *Escherichia coli* from broilers, using harmonised ECOFFs, 28 EU MSs and 4 non-MS, 2018

Country	N	GEN	CHL	AMP	CTX	CAZ	MEM	TGC	NAL	CIP	AZM	COL	SMX	TMP	TET	CS	MDR	Resistance to both CIP/CTX, applying ECOFFs	Resistance to both CIP/CTX, applying CBPs
Austria	174	4	5.2	33.3	0	0	0	0	51.1	53.4	1.7	0	29.9	19	25.9	29.3	28.2	0	0
Belgium	146	11	28.1	84.2	15.1	13.7	0	1.4	54.1	59.6	1.4	0.7	75.3	61	55.5	6.8	76	9.6	2.1
Bulgaria	100	14	26	55	5	4	0	0	78	80	4	1	59	44	55	10	62	5	2
Croatia	85	5.9	2.4	40	1.2	1.2	0	0	76.5	82.4	0	0	36.5	18.8	38.8	10.6	38.8	1.2	1.2
Cyprus	101	7.9	18.8	65.3	7.9	7.9	0	0	69.3	85.1	4	2	61.4	49.5	59.4	6.9	68.3	7.9	2
Czechia	189	2.1	2.1	40.7	0	0	0	0	67.7	73.5	0.5	0	23.8	18.5	20.1	20.1	26.5	0	0
Denmark	166	1.2	1.8	17.5	0	0	0	0	12.7	13.3	0	0	20.5	12.7	13.3	60.2	12	0	0
Estonia	85	0	14.1	71.8	0	0	0	0	78.8	87.1	3.5	0	32.9	44.7	20	9.4	61.2	0	0
Finland	173	1.2	0.6	13.3	0.6	0.6	0	0	5.8	5.8	0	0	6.4	5.2	6.4	80.9	5.2	0	0
France	221	3.2	4.1	47.1	2.3	2.3	0	0	37.6	38	1.4	1.8	46.2	41.2	54.3	23.5	45.7	1.4	0.5
Germany	214	7	8.4	65	1.4	1.4	0	0	52.3	55.6	2.3	4.7	49.5	33.6	24.8	12.1	47.2	1.4	0.5
Greece	170	15.9	38.8	81.8	0.6	0	0	0	86.5	90.6	13.5	0	82.4	75.9	64.7	1.8	86.5	0.6	0.6
Hungary	170	8.2	17.1	50	2.9	2.9	0	0	74.1	84.1	1.8	0	42.9	28.2	42.4	8.8	49.4	2.9	1.2
Ireland	200	0.5	6	45	1	0.5	0	0	24	25.5	2	0	27.5	24	28.5	37	28	0.5	0
Italy	170	6.5	21.8	68.8	2.4	1.8	0	0	53.5	63.5	3.5	0	59.4	50	51.2	15.3	64.1	1.2	0
Latvia	200	0.5	14	29.5	1	1	0	0	55.5	55.5	0	0	36.5	23	19.5	22	36	1	0
Lithuania	93	15.1	34.4	84.9	30.1	30.1	0	0	65.6	80.6	3.2	0	69.9	62.4	53.8	5.4	79.6	26.9	11.8
Luxembourg	1	0	0	100	0	0	0	0	100	100	0	0	100	100	0	0	100	0	0
Malta	85	9.4	17.6	69.4	9.4	8.2	0	0	50.6	52.9	1.2	0	57.6	37.6	54.1	14.1	56.5	7.1	3.5
Netherlands	299	4.7	6.7	43.8	1	1	0	0	30.4	32.4	0.3	0	33.4	28.1	28.4	32.4	33.8	0	0
Poland	181	6.1	23.8	85.6	2.2	1.7	0	0	64.1	84	1.7	0.6	60.2	57.5	76.2	5	76.8	2.2	2.2
Portugal	161	9.9	21.7	78.3	3.7	3.7	0	0	78.9	84.5	7.5	1.2	61.5	47.8	59.6	5.6	72.7	3.1	1.2
Romania	170	20	32.9	67.6	4.7	4.1	0	0	87.1	91.8	10	4.7	65.3	52.4	57.6	4.7	72.9	4.7	4.1
Slovakia	85	4.7	14.1	68.2	0	0	0	0	78.8	87.1	0	0	51.8	34.1	51.8	8.2	60	0	0
Slovenia	85	3.5	3.5	61.2	0	0	0	0	70.6	82.4	1.2	0	36.5	30.6	32.9	8.2	40	0	0

## EUSR on AMR in zoonotic and indicator bacteria from humans, animals and food 2018/2019

Spain	170	23.5	11.8	50	3.5	3.5	0	0	75.9	80	4.1	0	33.5	24.7	50.6	7.1	49.4	3.5	0
Sweden	178	0.6	0	16.3	0.6	0.6	0	0	6.7	6.7	0	0	14.6	10.7	13.5	69.1	10.7	0	0
United Kingdom	183	10.4	2.7	46.4	2.2	2.2	0	0	14.8	15.8	0	0	40.4	27.3	26.8	35.5	35	0	0
Iceland	78	0	0	21.8	0	0	0	0	1.3	1.3	0	0	5.1	6.4	5.1	74.4	5.1	0	0
<b>Total (MSs)</b>	<b>4255</b>	<b>7</b>	<b>13.1</b>	<b>52.5</b>	<b>3</b>	<b>2.8</b>	<b>0</b>	<b>0</b>	<b>51.9</b>	<b>56.7</b>	<b>2.5</b>	<b>0.7</b>	<b>43.4</b>	<b>34.4</b>	<b>38.6</b>	<b>22.7</b>	<b>46.6</b>	<b>2.3</b>	<b>0.9</b>
<b>Median (MSs)</b>	-	<b>5.9</b>	<b>11.8</b>	<b>55.0</b>	<b>1.2</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>64.1</b>	<b>73.5</b>	<b>1.4</b>	<b>0.0</b>	<b>42.9</b>	<b>33.6</b>	<b>38.8</b>	<b>10.6</b>	<b>49.4</b>	<b>1.0</b>	<b>0.0</b>
Norway	278	1.1	0.4	4	0	0	0	0	10.8	10.8	0	0	1.4	1.1	2.2	80.9	0.4	0	0
Rep. of North Macedonia	4	25	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	0
Switzerland	214	2.3	0.9	25.7	0	0	0	0	45.3	45.8	0	0	22.4	15	15.9	37.4	21	0	0
<b>Total (MSs and non-MSs)</b>	<b>4829</b>	<b>6.4</b>	<b>11.6</b>	<b>48</b>	<b>2.6</b>	<b>2.4</b>	<b>0</b>	<b>0</b>	<b>48.4</b>	<b>52.7</b>	<b>2.2</b>	<b>0.6</b>	<b>39.4</b>	<b>31.2</b>	<b>35</b>	<b>27.6</b>	<b>42.1</b>	<b>2.1</b>	<b>0.8</b>
<b>Median (MSs and non-MSs)</b>	-	<b>5.3</b>	<b>7.6</b>	<b>50.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>54.8</b>	<b>61.6</b>	<b>1.3</b>	<b>0.0</b>	<b>38.5</b>	<b>29.4</b>	<b>30.7</b>	<b>13.1</b>	<b>46.5</b>	<b>0.6</b>	<b>0.0</b>

ECOFFs: epidemiological cut-off values; MSs: Member States; N: number of isolates tested; GEN: gentamicin, CHL: chloramphenicol; AMP: ampicillin; CTX: cefotaxime; CAZ: Ceftazidime; MEM: meropenem; TGC: tigecycline, NAL: nalidixic acid; CIP: ciprofloxacin; AZM: azithromycin; COL: colistin; SMX: sulfamethoxazole; TMP: trimethoprim; TET: tetracycline. CS: complete susceptibility; MDR: multidrug resistance (MDR). For descriptions of the analysis of MDR, CS and co-resistance see Annex A 'Materials and Methods'.

**Table 4:** Occurrence of resistance (%) to selected antimicrobials in indicator *Escherichia coli* from fattening turkeys, using harmonised ECOFFs, 11 EU MSs and 1 non-MS, 2018

Country	N	GEN	CHL	AMP	CTX	CAZ	MEM	TGC	NAL	CIP	AZM	COL	SMX	TMP	TET	CS	MDR	Resistance to both CIP/CTX, applying ECOFFs	Resistance to both CIP/CTX, applying CBPs
Austria	176	1.1	6.8	33.5	0.6	0.6	0	0	11.4	19.3	0.6	0	19.3	10.2	43.8	43.2	21	0	0
France	214	0.9	12.1	57.5	1.4	1.4	0	0	12.6	15.9	0.9	2.8	30.8	28	60.3	27.1	37.4	0	0
Germany	199	5.5	20.6	66.8	2.5	2	0	0	20.6	32.7	1.5	9	41.7	27.1	50.3	26.1	45.7	2.5	0.5
Hungary	170	2.4	23.5	52.4	0.6	0.6	0	0	47.1	61.2	3.5	0	32.9	21.2	75.9	15.9	52.4	0.6	0
Italy	170	6.5	23.5	75.3	1.2	1.2	0	0	40.6	56.5	5.9	1.2	62.9	58.8	75.3	12.9	68.8	1.2	0
Poland	184	8.2	27.2	71.2	3.3	2.7	0	0	34.8	62	1.1	2.2	48.4	35.3	62.5	14.7	62	3.3	1.6
Portugal	132	10.6	41.7	78	4.5	4.5	0	0	71.2	82.6	4.5	17.4	63.6	50	75.8	7.6	78	4.5	3.8
Romania	18	44.4	77.8	77.8	0	0	0	0	38.9	66.7	11.1	0	77.8	50	66.7	16.7	77.8	0	0
Spain	170	8.2	23.5	68.8	7.1	7.1	0	0	44.7	57.6	0	0	47.1	29.4	61.2	15.9	56.5	4.7	1.8
Sweden	66	0	1.5	9.1	0	0	0	0	3	3	0	0	1.5	0	6.1	80.3	0	0	0
United Kingdom	175	0.6	4	56.6	0	0	0	0	6.3	10.9	0	0	17.7	13.7	46.3	28.6	20.6	0	0
<b>Total (MSs)</b>	<b>1674</b>	<b>4.9</b>	<b>19.5</b>	<b>59.9</b>	<b>2.2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>29.3</b>	<b>41</b>	<b>1.9</b>	<b>3.2</b>	<b>38.5</b>	<b>28.8</b>	<b>58.5</b>	<b>24.2</b>	<b>46.4</b>	<b>1.7</b>	<b>0.7</b>
<b>Median (MSs)</b>	-	<b>5.5</b>	<b>23.5</b>	<b>66.8</b>	<b>1.2</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>34.8</b>	<b>56.5</b>	<b>1.1</b>	<b>0.0</b>	<b>41.7</b>	<b>28.0</b>	<b>61.2</b>	<b>16.7</b>	<b>52.4</b>	<b>0.6</b>	<b>0.0</b>
Norway	136	2.9	1.5	14.7	0	0	0	0	0.7	0.7	0	0.7	10.3	6.6	10.3	72.8	7.4	0	0
<b>Total (MSs and non-MSs)</b>	<b>1810</b>	<b>4.8</b>	<b>18.1</b>	<b>56.5</b>	<b>2</b>	<b>1.9</b>	<b>0</b>	<b>0</b>	<b>27.2</b>	<b>38</b>	<b>1.8</b>	<b>3</b>	<b>36.4</b>	<b>27.1</b>	<b>54.9</b>	<b>27.8</b>	<b>43.5</b>	<b>1.5</b>	<b>0.7</b>
<b>Median (MSs and non-MSs)</b>	-	<b>4.2</b>	<b>22.1</b>	<b>62.2</b>	<b>0.9</b>	<b>0.9</b>	<b>0.0</b>	<b>0.0</b>	<b>27.7</b>	<b>44.6</b>	<b>1.0</b>	<b>0.4</b>	<b>37.3</b>	<b>27.6</b>	<b>60.8</b>	<b>21.4</b>	<b>49.1</b>	<b>0.3</b>	<b>0.0</b>

ECOFFs: epidemiological cut-off values; MSs: Member States; N: number of isolates tested; GEN: gentamicin, CHL: chloramphenicol; AMP: ampicillin; CTX: cefotaxime; CAZ: Cefotazidime; MEM: meropenem; TGC: tigecycline, NAL: nalidixic acid; CIP: ciprofloxacin; AZM: azithromycin; COL: colistin; SMX: sulfamethoxazole; TMP: trimethoprim; TET: tetracycline. CS: complete susceptibility; MDR: multidrug resistance (MDR). For descriptions of the analysis of MDR, CS and co-resistance see Annex A 'Materials and Methods'.