



Test forms, Isolation of ESBL/AmpC- and carbapenemase-producers from matrices

Username: Contact person: Country: Date for filling in test forms:

SAMPLES

Reception date and exact time of opening the parcel of the proficiency test samples at the laboratory: (date and time is required)

Temperature of the contents of the parcel at arrival: °C

How many samples did your laboratory process in 2019 for monitoring of ESBL/AmpC-detection in relation to 2013/652/EU? (choose only one option)

- less than 100
- 101-200
- 201-300
- 301-400
- 401- 1000
- more than 1000

Which kind of samples did your laboratory process in 2019 for monitoring of ESBL/AmpC-detection in relation to 2013/652/EU? (you may choose more than one option)

- caecal, calves
- meat, pork
- other matrices, please specify:



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Did you process samples for carbapenemase-selective isolation?

- Yes
 No

How many samples did your laboratory process in 2019 for monitoring of carbapenemases in relation to 2013/652/EU? (Choose only one option)

- less than 100
 101-200
 201-300
 301-400
 401- 1000
 more than 1000

Which kind of samples did your laboratory process in 2019 for monitoring of carbapenemase-production in relation to 2013/652/EU? (you may choose more than one option)

- caecal, calves
 meat, pork
 other matrices, please specify:

Any other comments:



METHODS

1- Method used for selective isolation of ESBL/AmpC in this EQAS:

Selective isolation procedure using the EURL recommended protocols that refer to the EU regulation 652/2013/EU

- The protocol was used without modifications (please jump to question 2)
- The protocol was used, however, the pre-enrichment was modified (please respond question 1.1)
- The protocol was used, however, the selective isolation procedures were modified (please respond question 1.2)
- The protocol was used, however, the incubation conditions in the selective plating were modified (please respond question 1.3)

1.1- If you modified the pre-enrichment, please indicate the differences introduced:

Different sample amount (weight) used for the enrichment procedure:

g in meat samples

g for caecal samples

Different volume of enrichment in the isolation step:

ml for meat samples

ml for caecal samples

Different pre-enrichment medium:

Different incubation conditions in pre-enrichment °C/ h;

Please justify these changes:

1.2- If you made changes in the selective isolation procedure:

Different sample amount (weight) used for the enrichment procedure:

g in meat samples

g for caecal samples

Different concentration of cefotaxime: mg/L

Different antimicrobial

Different medium

Please justify these changes:



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1.3- If you used different incubation conditions in the selective plating, please indicate the conditions used: °C/ h;

Please justify these changes:

2- Method used for selective isolation of carbapenemase-producers (in case you run this method) in this EQAS:

Selective isolation procedure using the EURL recommended protocols for isolation of carbapenemase-producers:

- We did not perform carbapenemase selective isolation
- The protocol was used without modifications
- The protocol was modified

Plates used (brand/type)

Please justify these changes:

3- Method used for confirmation of *E. coli* species identification. Please indicate the primary *E. coli* identification method used (choose only one option; if you used more than one method, please explain in the comments field)

- PCR using published methods
- PCR using in-house method
- Biochemical tests
- MALDI-ToF
- DNA Sequencing
- Chromogenic media

Comments:

4- Method used for general antimicrobial susceptibility testing of the strains (choose only one option)

- Microbroth dilution test on EUVSEC panel
- Microbroth dilution test on another panel
- Agar dilution method
- E-test
- Disk diffusion test



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5- Method used for phenotypic confirmatory testing of ESBL/AmpC (choose only one option)

- Microbroth dilution test on EUVSEC2 panel
- Microbroth dilution test on another panel
- Agar dilution method
- E-test
- Disk diffusion test

6- Additional comments. Please include here description and justification of your choice if you modified something in relation to the method defined in the EU regulation 2013/652/EU:



TEST FORM – SAMPLE ‘EURL M-5.1’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).



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Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):

- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.1	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
Trimethoprim, TMP				

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.1	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):



TEST FORM – SAMPLE ‘EURL M-5.2’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).



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Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):

- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.2	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
	Trimethoprim, TMP			

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.2	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):



TEST FORM – SAMPLE ‘EURL M-5.3’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).

Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):



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- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.3	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
	Trimethoprim, TMP			

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.3	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):



TEST FORM – SAMPLE ‘EURL M-5.4’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).

Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):



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- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.4	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
	Trimethoprim, TMP			

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.4	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):



TEST FORM – SAMPLE ‘EURL M-5.5’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).

Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):



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- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.5	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
Trimethoprim, TMP				

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.5	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):



TEST FORM – SAMPLE ‘EURL M-5.6’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).

Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):



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- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.6	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
Trimethoprim, TMP				

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.6	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):



TEST FORM – SAMPLE ‘EURL M-5.7’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).

Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):



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- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.7	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
Trimethoprim, TMP				

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.7	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):



TEST FORM – SAMPLE ‘EURL M-5.8’

Date the isolation procedure was started:

Please describe the results you have observed regarding this sample:

Visible growth in pre-enrichment:

Yes / No

Growth on ESBL/AmpC-selective plates:

Yes / No

Please describe the growth observed on ESBL/AmpC-selective plates? (choose only one option)

- Mixed culture containing typical *E. coli* colonies
- Mixed culture without typical *E. coli* colonies
- Pure culture of typical *E. coli* colonies
- Pure culture without typical *E. coli* colonies
- No growth

Results of species identification: (choose only one option)

- No isolates tested (sample negative)
- Presumptive ESBL/AmpC isolate identified as *E. coli* (sample considered positive)

Comments:

Did you perform carbapenemase selective plating?

Yes / No

Growth on CARBA-selective plates:

Yes / No

Growth on OXA-48 selective plates:

Yes / No

Results of species identification (isolates from carbapenemase selective plating): (choose only one option)

- No isolates tested (sample negative)
- Presumptive other carbapenemase isolate identified as *E. coli* (sample considered positive)
- Presumptive OXA-48 isolate identified as *E. coli* (sample considered positive)

Comments:

If you have found a presumptive carbapenemase positive isolate, please insert the results of antimicrobial susceptibility testing for the selected *E. coli* isolate, if you do not have a carbapenemase positive isolate and you have an ESBL presumptive isolate, please insert the results for this isolate (only one *E. coli* isolate is expected to be tested and these results will be evaluated in our database against the expected results).



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Please confirm where the isolate tested for antimicrobial susceptibility originated from (compulsory):

- ESBL/ampC isolation on MacConkey with cefotaxime
- CARBA plate
- OXA-48 plate

Based on the results from the first AST panel, was the isolate found resistant to cefotaxime, ceftazidime or meropenem so that the second panel was tested?

Yes / No



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AST results

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.8	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefotaxime, FOT			
	Ceftazidime, TAZ			
	Chloramphenicol, CHL			
	Ciprofloxacin CIP			
	Colistin, COL			
	Gentamicin, GEN			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Sulfamethoxazole, SMX			
	Tetracycline, TET			
	Tigecycline, TGC			
	Trimethoprim, TMP			

Second *E. coli* AST panel (confirmatory testing for ESBL/AmpC/carbapenemase-production)

Strain	Antimicrobial	Results and interpretation		
		≤ >	MIC-value (mg/L)	S / R
<i>E. coli</i> EURL M-5.8	Cefepime, FEP			
	Cefotaxime + clavulanic acid (F/C)			
	Cefotaxime, FOT			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime+ clavulanic acid (T/C)			
	Ertapenem, ETP			
	Imipenem, IMI			
	Meropenem, MERO			
	Temocillin, TRM			

Conclusions of confirmatory phenotypic testing: (choose only one option and please note that the final result will be evaluated by the database)

Interpretation of PANEL 2 results:

<input type="checkbox"/> Presumptive ESBL	<input type="checkbox"/> Presumptive AmpC	<input type="checkbox"/> Other phenotype
<input type="checkbox"/> Presumptive ESBL+ AmpC	<input type="checkbox"/> Presumptive carbapenemase	<input type="checkbox"/> Susceptible

Comments (include optional genotype or other results):