

EQA8 TEST FORMS

Test form – *Klebsiella pneumoniae* panel

Which method did you primarily use for antimicrobial susceptibility testing of *Klebsiella pneumoniae* in this EQA?

- MIC – Broth microdilution (automated)
- MIC – Broth microdilution (conventional)
- MIC – Broth macrodilution (tubes)
- MIC – Agar dilution
- Gradient test
- Disk diffusion

Please note: You will be able to change method for each individual antibiotic in the IT module.

Which standard(s)/guideline(s) did you use when performing AST?

- CLSI
- EUCAST
- ISO20776-1:2019
- TREK
- Other

Which incubation conditions did you use?

_____ °C/ _____ h

Comments or additional information:

Test form – *Klebsiella pneumoniae* Kp EQAsia 24.1

The highlighted antimicrobials could be omitted by the Human Health laboratories.

Strain – <i>Klebsiella pneumoniae</i>	Antimicrobial	Interpretation		
		≤; =; >	MIC-value (mg/L) or Zone diameter (mm)	S/I/R
Kp EQAsia 24.1 Identification <input type="checkbox"/> <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Non- <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Not tested <input type="checkbox"/> No growth	Amikacin, AMK			
	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefepime, FEP			
	Cefotaxime, FOT			
	Cefotaxime + clavulanic acid, F/C			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime + clavulanic acid, T/C			
	Chloramphenicol, CHL			
	Ciprofloxacin, CIP			
	Colistin, COL			
	Doripenem, DOR			
	Ertapenem, ETP			
	Gentamicin, GEN			
	Imipenem, IMI			
	Levofloxacin, LEVO			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Piperacillin/tazobactam, PT4			
Sulfamethoxazole, SMX				
Tetracycline, TET				
Tigecycline, TGC				
Tobramycin, TOB				
Trimethoprim, TMP				
Trimethoprim/sulfamethoxazole, SXT				

All strains displaying reduced susceptibility to cefotaxime (FOT) and/or ceftazidime (TAZ) could additionally be tested for AmpC, ESBL- or carbapenemase-production. See further description in the EQA8 protocol.

Did you test for ESBL, AmpC or carbapenemase production?

Yes

No

Is the strain an ESBL-, AmpC, or carbapenemase-producer?

Yes

No

Please select the detected resistant phenotype (see guideline in the EQA8 protocol): [please select one option]

ESBL-producer

ESBL+AmpC-producer

AmpC-producer

Carbapenemase-producer

Other phenotype

Test form – *Klebsiella pneumoniae* Kp EQAsia 24.2

The highlighted antimicrobials could be omitted by the Human Health laboratories.

Strain – <i>Klebsiella pneumoniae</i>	Antimicrobial	Interpretation		
		≤; =; >	MIC-value (mg/L) or Zone diameter (mm)	S/I/R
Kp EQAsia 24.2 Identification <input type="checkbox"/> <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Non- <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Not tested <input type="checkbox"/> No growth	Amikacin, AMK			
	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefepime, FEP			
	Cefotaxime, FOT			
	Cefotaxime + clavulanic acid, F/C			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime + clavulanic acid, T/C			
	Chloramphenicol, CHL			
	Ciprofloxacin, CIP			
	Colistin, COL			
	Doripenem, DOR			
	Ertapenem, ETP			
	Gentamicin, GEN			
	Imipenem, IMI			
	Levofloxacin, LEVO			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Piperacillin/tazobactam, PT4			
Sulfamethoxazole, SMX				
Tetracycline, TET				
Tigecycline, TGC				
Tobramycin, TOB				
Trimethoprim, TMP				
Trimethoprim/sulfamethoxazole, SXT				

All strains displaying reduced susceptibility to cefotaxime (FOT) and/or ceftazidime (TAZ) could additionally be tested for AmpC, ESBL- or carbapenemase-production. See further description in the EQA8 protocol.

Did you test for ESBL, AmpC or carbapenemase production?

Yes
 No

Is the strain an ESBL-, AmpC, or carbapenemase-producer?

Yes
 No

Please select the detected resistant phenotype (see guideline in the EQA8 protocol): [please select one option]

ESBL-producer
 ESBL+AmpC-producer
 AmpC-producer
 Carbapenemase-producer
 Other phenotype

Test form – *Klebsiella pneumoniae* Kp EQAsia 24.3

The highlighted antimicrobials could be omitted by the Human Health laboratories.

Strain – <i>Klebsiella pneumoniae</i>	Antimicrobial	Interpretation		
		≤; =; >	MIC-value (mg/L) or Zone diameter (mm)	S/I/R
Kp EQAsia 24.3 Identification <input type="checkbox"/> <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Non- <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Not tested <input type="checkbox"/> No growth	Amikacin, AMK			
	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefepime, FEP			
	Cefotaxime, FOT			
	Cefotaxime + clavulanic acid, F/C			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime + clavulanic acid, T/C			
	Chloramphenicol, CHL			
	Ciprofloxacin, CIP			
	Colistin, COL			
	Doripenem, DOR			
	Ertapenem, ETP			
	Gentamicin, GEN			
	Imipenem, IMI			
	Levofloxacin, LEVO			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Piperacillin/tazobactam, PT4			
Sulfamethoxazole, SMX				
Tetracycline, TET				
Tigecycline, TGC				
Tobramycin, TOB				
Trimethoprim, TMP				
Trimethoprim/sulfamethoxazole, SXT				

All strains displaying reduced susceptibility to cefotaxime (FOT) and/or ceftazidime (TAZ) could additionally be tested for AmpC, ESBL- or carbapenemase-production. See further description in the EQA8 protocol.

Did you test for ESBL, AmpC or carbapenemase production?

Yes

No

Is the strain an ESBL-, AmpC, or carbapenemase-producer?

Yes

No

Please select the detected resistant phenotype (see guideline in the EQA8 protocol): [please select one option]

ESBL-producer

ESBL+AmpC-producer

AmpC-producer

Carbapenemase-producer

Other phenotype

Test form – *Klebsiella pneumoniae* Kp EQAsia 24.4

The highlighted antimicrobials could be omitted by the Human Health laboratories.

Strain – <i>Klebsiella pneumoniae</i>	Antimicrobial	Interpretation		
		≤; =; >	MIC-value (mg/L) or Zone diameter (mm)	S/I/R
Kp EQAsia 24.4 Identification <input type="checkbox"/> <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Non- <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Not tested <input type="checkbox"/> No growth	Amikacin, AMK			
	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefepime, FEP			
	Cefotaxime, FOT			
	Cefotaxime + clavulanic acid, F/C			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime + clavulanic acid, T/C			
	Chloramphenicol, CHL			
	Ciprofloxacin, CIP			
	Colistin, COL			
	Doripenem, DOR			
	Ertapenem, ETP			
	Gentamicin, GEN			
	Imipenem, IMI			
	Levofloxacin, LEVO			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Piperacillin/tazobactam, PT4			
Sulfamethoxazole, SMX				
Tetracycline, TET				
Tigecycline, TGC				
Tobramycin, TOB				
Trimethoprim, TMP				
Trimethoprim/sulfamethoxazole, SXT				

All strains displaying reduced susceptibility to cefotaxime (FOT) and/or ceftazidime (TAZ) could additionally be tested for AmpC, ESBL- or carbapenemase-production. See further description in the EQA8 protocol.

Did you test for ESBL, AmpC or carbapenemase production?

Yes

No

Is the strain an ESBL-, AmpC, or carbapenemase-producer?

Yes

No

Please select the detected resistant phenotype (see guideline in the EQA8 protocol): [please select one option]

ESBL-producer

ESBL+AmpC-producer

AmpC-producer

Carbapenemase-producer

Other phenotype

Test form – *Klebsiella pneumoniae* Kp EQAsia 24.5

The highlighted antimicrobials could be omitted by the Human Health laboratories.

Strain – <i>Klebsiella pneumoniae</i>	Antimicrobial	Interpretation		
		≤; =; >	MIC-value (mg/L) or Zone diameter (mm)	S/I/R
Kp EQAsia 24.5 Identification <input type="checkbox"/> <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Non- <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Not tested <input type="checkbox"/> No growth	Amikacin, AMK			
	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefepime, FEP			
	Cefotaxime, FOT			
	Cefotaxime + clavulanic acid, F/C			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime + clavulanic acid, T/C			
	Chloramphenicol, CHL			
	Ciprofloxacin, CIP			
	Colistin, COL			
	Doripenem, DOR			
	Ertapenem, ETP			
	Gentamicin, GEN			
	Imipenem, IMI			
	Levofloxacin, LEVO			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Piperacillin/tazobactam, PT4			
Sulfamethoxazole, SMX				
Tetracycline, TET				
Tigecycline, TGC				
Tobramycin, TOB				
Trimethoprim, TMP				
Trimethoprim/sulfamethoxazole, SXT				

All strains displaying reduced susceptibility to cefotaxime (FOT) and/or ceftazidime (TAZ) could additionally be tested for AmpC, ESBL- or carbapenemase-production. See further description in the EQA8 protocol.

Did you test for ESBL, AmpC or carbapenemase production?

Yes

No

Is the strain an ESBL-, AmpC, or carbapenemase-producer?

Yes

No

Please select the detected resistant phenotype (see guideline in the EQA8 protocol): [please select one option]

ESBL-producer

ESBL+AmpC-producer

AmpC-producer

Carbapenemase-producer

Other phenotype

Test form – *Klebsiella pneumoniae* Kp EQAsia 24.6

The highlighted antimicrobials could be omitted by the Human Health laboratories.

Strain – <i>Klebsiella pneumoniae</i>	Antimicrobial	Interpretation		
		≤; =; >	MIC-value (mg/L) or Zone diameter (mm)	S/I/R
Kp EQAsia 24.6 Identification <input type="checkbox"/> <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Non- <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Not tested <input type="checkbox"/> No growth	Amikacin, AMK			
	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefepime, FEP			
	Cefotaxime, FOT			
	Cefotaxime + clavulanic acid, F/C			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime + clavulanic acid, T/C			
	Chloramphenicol, CHL			
	Ciprofloxacin, CIP			
	Colistin, COL			
	Doripenem, DOR			
	Ertapenem, ETP			
	Gentamicin, GEN			
	Imipenem, IMI			
	Levofloxacin, LEVO			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Piperacillin/tazobactam, PT4			
Sulfamethoxazole, SMX				
Tetracycline, TET				
Tigecycline, TGC				
Tobramycin, TOB				
Trimethoprim, TMP				
Trimethoprim/sulfamethoxazole, SXT				

All strains displaying reduced susceptibility to cefotaxime (FOT) and/or ceftazidime (TAZ) could additionally be tested for AmpC, ESBL- or carbapenemase-production. See further description in the EQA8 protocol.

Did you test for ESBL, AmpC or carbapenemase production?

Yes

No

Is the strain an ESBL-, AmpC, or carbapenemase-producer?

Yes

No

Please select the detected resistant phenotype (see guideline in the EQA8 protocol): [please select one option]

ESBL-producer

ESBL+AmpC-producer

AmpC-producer

Carbapenemase-producer

Other phenotype

Test form – *Klebsiella pneumoniae* Kp EQAsia 24.7

The highlighted antimicrobials could be omitted by the Human Health laboratories.

Strain – <i>Klebsiella pneumoniae</i>	Antimicrobial	Interpretation		
		≤; =; >	MIC-value (mg/L) or Zone diameter (mm)	S/I/R
Kp EQAsia 24.7 Identification <input type="checkbox"/> <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Non- <i>Klebsiella pneumoniae</i> <input type="checkbox"/> Not tested <input type="checkbox"/> No growth	Amikacin, AMK			
	Ampicillin, AMP			
	Azithromycin, AZI			
	Cefepime, FEP			
	Cefotaxime, FOT			
	Cefotaxime + clavulanic acid, F/C			
	Cefoxitin, FOX			
	Ceftazidime, TAZ			
	Ceftazidime + clavulanic acid, T/C			
	Chloramphenicol, CHL			
	Ciprofloxacin, CIP			
	Colistin, COL			
	Doripenem, DOR			
	Ertapenem, ETP			
	Gentamicin, GEN			
	Imipenem, IMI			
	Levofloxacin, LEVO			
	Meropenem, MERO			
	Nalidixic acid, NAL			
	Piperacillin/tazobactam, PT4			
Sulfamethoxazole, SMX				
Tetracycline, TET				
Tigecycline, TGC				
Tobramycin, TOB				
Trimethoprim, TMP				
Trimethoprim/sulfamethoxazole, SXT				

All strains displaying reduced susceptibility to cefotaxime (FOT) and/or ceftazidime (TAZ) could additionally be tested for AmpC, ESBL- or carbapenemase-production. See further description in the EQA8 protocol.

Did you test for ESBL, AmpC or carbapenemase production?

Yes

No

Is the strain an ESBL-, AmpC, or carbapenemase-producer?

Yes

No

Please select the detected resistant phenotype (see guideline in the EQA8 protocol): [please select one option]

ESBL-producer

ESBL+AmpC-producer

AmpC-producer

Carbapenemase-producer

Other phenotype

Test form – Reference strain: *Escherichia coli* ATCC 25922/CCM 3954

Strain – <i>Escherichia coli</i> ATCC 25922/ CCM 3954	Antimicrobial	MIC value (mg/L) or Zone Diameter (mm)
	Amikacin, AMK	
	Ampicillin, AMP	
	Azithromycin, AZI	
	Cefepime, FEP	
	Cefotaxime, FOT	
	Cefotaxime + clavulanic acid, F/C	
	Cefoxitin, FOX	
	Ceftazidime, TAZ	
	Ceftazidime + clavulanic acid, T/C	
	Chloramphenicol, CHL	
	Ciprofloxacin, CIP	
	Doripenem, DOR	
	Ertapenem, ETP	
	Gentamicin, GEN	
	Imipenem, IMI	
	Levofloxacin, LEVO	
	Meropenem, MERO	
	Nalidixic acid, NAL	
	Piperacillin/tazobactam, PT4	
Sulfamethoxazole, SMX		
Tetracycline, TET		
Tigecycline, TGC		
Tobramycin, TOB		
Trimethoprim, TMP		
Trimethoprim/sulfamethoxazole, SXT		

Test form – Reference strain: *Escherichia coli* NCTC 13846/CCM 8874 (for colistin)

Strain – <i>Escherichia coli</i> NCTC 13846/ CCM 8874	Antimicrobial	MIC value (mg/L) or Zone Diameter (mm)
	Colistin, COL	