



SPECIES DESIGNATION AND DISK DIFFUSION

EXTERNAL QUALITY ASSESSMENT SCHEME ON ANTIMICROBIAL SUSCEPTIBILITY TESTING 2014-2015

INSTITUTE FOR HEALTH IN NIS

RL FOR CAMPYLOBACTER AND HELICOBACTER

SERBIA

Dear Participant

In this evaluation report your individual results are presented for the first external quality assessment on antimicrobial susceptibility testing (EQA1-AST) 2014-2015 for national public health laboratories for *Salmonella* and *Campylobacter* in the Food-and Waterborne Diseases and Zoonoses Network (FWD-Net) organised by Statens Serum Institut (SSI).

Enclosed with this document are nine pages including the Eucast ECOFFs and clinical breakpoints for *Campylobacter*, your own submitted results, expected results and a comparison of these. Please study the results carefully and do not hesitate to contact us if you have any question or suggestions.

Thank you very much for your participation.

Yours sincerely,

EQA team Denmark





SPECIES DESIGNATION AND DISK DIFFUSION

EUCAST ECOFFs and clinical breakpoints used for *Campylobacter*

	N	/IIC determir	nation (μg/m	L)	Disk Diffusion (mm)				
			EUCAST	EUCAST clinical		EUCA		Clinical	
Antimicrobial agent	EUCAS	T ECOFF	break	point	EUCAS	T ECOFF	break	point	
Mandatory	WT≤	NWT >	S≤	R >	WT≥	NWT <	S≥	R <	
Ciprofloxacin	0.5	0.5	0.5	0.5	26	26	26	26	
Erythromycin (jejuni)	4	4	4	4	22	22	20	20	
Erythromycin (coli)	8	8	8	8	24	24	24	24	
Tetracycline	1	1	2	2	30	30	30	30	
Optional									
Gentamicin	2	2	NA	NA	NA	NA	NA	NA	
Amoxicillin+clavulanic acid	NA	NA	NA	NA	NA	NA	NA	NA	





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EQA_AST.C15.0001

	Expected results as measured by SSI			Your r	eported results a	nd criteria	In accordance	Interpretation based on	In accordance
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³
Ciprofloxacin	30	WT	S	34	S/WT	< 26	Correct	WT	Correct
Erythromycin	6	NWT	R	6	R/NWT	< 34	Correct	NWT	Correct
Tetracycline	38	WT	S	30	S/WT	< 30	Correct	WT	Correct
Gentamicin	33	NA	NA	22	S/WT	< 14	Correct	NA	NA
Amoxicillin+clavulanic acid	38	NA	NA	43	S/WT	< 19	Correct	NA	NA
Species designation	Expected result			Your reported result			In accordance with expected		
	Campylobacter coli			C. coli			Correct		

¹Participant reported measured values interpreted by SSI according to own reported breakpoints/cutoffs for resistance and compared to the reported interpretation.

² Participant reported measured values interpreted by SSI based on EUCAST ECOFFs when available.

³ Participant reported values interpreted by SSI based on EUCAST ECOFFs compared to the expected interpretations as measured by SSI.





SPECIES DESIGNATION AND DISK DIFFUSION

EQA_AST.C15.0002

	Expec	Expected results as measured by SSI			reported results a	nd criteria	In accordance	Interpretation based on	accordance	
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³	
Ciprofloxacin	6	NWT	R	6	R/NWT	< 26	Correct	NWT	Correct	
Erythromycin	Mix ⁴	WT/NWT	S/R	6	R/NWT	< 34	Correct	NWT	Correct	
Tetracycline	6	NWT	R	6	R/NWT	< 30	Correct	NWT	Correct	
Gentamicin	30	NA	NA	24	S/WT	< 14	Correct	NA	NA	
Amoxicillin+clavulanic acid	30	NA	NA	41	S/WT	< 19	Correct	NA	NA	
Species designation	Expected result				Your reported result			In accordance with expected		
	Campylobacter coli				C. coli			Correct		

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³ Participant reported values interpreted by SSI based on EUCAST ECOFFs compared to the expected interpretations as measured by SSI.

⁴Both Erythromycin S/WT and R/NWT are accepted as the original culture contained two strains.





SPECIES DESIGNATION AND DISK DIFFUSION

EQA_AST.C15.0003

	Expected results as measured by SSI			Your	reported results a	nd criteria	In accordance	Interpretation based on	In accordance	
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³	
Ciprofloxacin	6	NWT	R	6	R/NWT	< 26	Correct	NWT	Correct	
Erythromycin	33	WT	S	40	S/WT	< 20	Correct	WT	Correct	
Tetracycline	44	WT	S	50	S/WT	< 30	Correct	WT	Correct	
Gentamicin	33	NA	NA	34	S/WT	< 14	Correct	NA	NA	
Amoxicillin+clavulanic acid	33	NA	NA	50	S/WT	< 19	Correct	NA	NA	
Species designation	Expected result				Your reported result			In accordance with expected		
	Campylobacter jejuni			C. jejuni			Correct			

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SPECIES DESIGNATION AND DISK DIFFUSION

EQA_AST.C15.0004

	Expected results as measured by SSI			Your	eported results a	nd criteria	In accordance	Interpretation based on	In accordance	
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³	
Ciprofloxacin	6	NWT	R	6	R/NWT	< 26	Correct	NWT	Correct	
Erythromycin	32	WT	S	34	S/WT	< 20	Correct	WT	Correct	
Tetracycline	6	NWT	R	12	R/NWT	< 30	Correct	NWT	Correct	
Gentamicin	30	NA	NA	32	S/WT	< 14	Correct	NA	NA	
Amoxicillin+clavulanic acid	49	NA	NA	55	S/WT	< 19	Correct	NA	NA	
Species designation	Expected result				Your reported result			In accordance with expected		
	Campylobacter jejuni				C. jejuni			Correct		

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SPECIES DESIGNATION AND DISK DIFFUSION

EQA_AST.C15.0005

	Expected results as measured by SSI			Your r	eported results a	nd criteria	In accordance	Interpretation based on	In accordance
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³
Ciprofloxacin	6	NWT	R	6	R/NWT	< 26	Correct	NWT	Correct
Erythromycin	24	WT	S	26	S/WT	< 34	Correct	WT	Correct
Tetracycline	39	WT	S	45	S/WT	< 30	Correct	WT	Correct
Gentamicin	31	NA	NA	25	S/WT	< 14	Correct	NA	NA
Amoxicillin+clavulanic acid	25	NA	NA	27	S/WT	< 19	Correct	NA	NA
Species designation	Expected result			Your reported result			In accordance with expected		
		Campylobact	ter coli	C. coli			Correct		

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SPECIES DESIGNATION AND DISK DIFFUSION

EQA_AST.C15.0006

	Expected results as measured by SSI			Your r	eported results a	nd criteria	In accordance	Interpretation based on	In accordance
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³
Ciprofloxacin	6	NWT	R	6	R/NWT	< 26	Correct	NWT	Correct
Erythromycin	26	WT	S	24	S/WT	< 34	Correct	WT	Correct
Tetracycline	6	NWT	R	6	R/NWT	< 30	Correct	NWT	Correct
Gentamicin	28	NA	NA	24	S/WT	< 14	Correct	NA	NA
Amoxicillin+clavulanic acid	37	NA	NA	45	S/WT	< 19	Correct	NA	NA
Species designation	Expected result			Your reported result			In accordance with expected		
	Campylobacter coli			C. coli			Correct		

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SPECIES DESIGNATION AND DISK DIFFUSION

EQA_AST.C15.0007

	Expected results as measured by SSI			Your	eported results a	nd criteria	In accordance	Interpretation based on	In accordance	
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³	
Ciprofloxacin	6	NWT	R	6	R/NWT	< 26	Correct	NWT	Correct	
Erythromycin	6	NWT	R	6	R/NWT	< 34	Correct	NWT	Correct	
Tetracycline	6	NWT	R	6	R/NWT	< 30	Correct	NWT	Correct	
Gentamicin	6	NA	NA	6	R/NWT	< 14	Correct	NA	NA	
Amoxicillin+clavulanic acid	23	NA	NA	25	S/WT	< 19	Correct	NA	NA	
Species designation	Expected result			Your reported result			In accordance with expected			
	Campylobacter coli				C. coli			Correct		

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SPECIES DESIGNATION AND DISK DIFFUSION

EQA_AST.C15.0008

	Expected results as measured by SSI			Your r	eported results a	nd criteria	In accordance	Interpretation based on	In accordance	
Antimicrobial agents	Value	Interpretation based on EUCAST ECOFFs	Interpretation based on clinical breakpoints	Value	Interpretation	Cutoff/breakpoint for R/NWT	with own criteria ¹	EUCAST ECOFFs ²	with expected ³	
Ciprofloxacin	35	WT	S	36	S/WT	< 26	Correct	WT	Correct	
Erythromycin	33	WT	S	27	S/WT	< 20	Correct	WT	Correct	
Tetracycline	44	WT	S	36	S/WT	< 30	Correct	WT	Correct	
Gentamicin	23	NA	NA	18	S/WT	< 14	Correct	NA	NA	
Amoxicillin+clavulanic acid	37	NA	NA	44	S/WT	< 19	Correct	NA	NA	
Species designation	Expected result			Your reported result			In accordance with expected			
	Campylobacter jejuni				C. jejuni			Correct		

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³ Participant reported values interpreted by SSI based on EUCAST ECOFFs compared to the expected interpretations as measured by SSI