



107<sup>th</sup> IAMM EQAS Microbiology: Bacteriology/ Serology  
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NABL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018

FEBRUARY 2021

107<sup>th</sup> EQAS EVALUATION REPORT

MEMBER ID: 

M	0	0	5	8
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Marks Obtained: 56.5/61 (92.6%)

**FEBRUARY 2021/ BACTERIOLOGY SMEARS:**

**Question:** Carry out the appropriate staining procedure and document the relevant observation.  
 Provide the Impression or probable organism seen (AS ASKED)

Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

PLEASE NOTE: The inaccuracies in the participant report resulting in deduction of marks has been underlined in the expected report.

Exercise Number	Question	Expected Report	Evaluation		
			0	0.5	1
SM1*	Please carry out a Gram stain on the given fixed smear prepared from a PUS specimen from an abscess in a 35-year-old gentleman.	Presence of host cells & debris (1mark): <u>Many pus cells</u>	0	0.5	1
		Description of Organism/s (2marks): <u>Many (0.5) Gram positive (0.5) cocci arranged in groups, pairs and short chains (1)</u>	1.5	2	2.5
		Probable organism (1 mark): <u>Staphylococcus spp</u>	3	3.5	4
SM2	Please carry out a Gram stain on the given fixed smear provided and select the correct description from the options given.	A] No Pus cells, many epithelial cells B] Many pus cells, many epithelial cells <u>C] Many pus cells, no epithelial cells</u> D] No pus cells, no epithelial cells	REMOVED FROM EVALUATION		

CU3: Isolated from a BLOOD culture of a 40-year-old lady presenting to the OPD with fever and chills.

FINAL IDENTIFICATION: *Klebsiella aerogenes*

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	✓		0 0.5 (1)
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 (4)
Final identification	✓	Genus incorrect*	0.5 1 (1.5) 2

\*Refer 106<sup>th</sup> EQAS explained

Susceptibility report	EXPECTED REPORT			PARTICIPANT REPORT		MARK 10 marks	TYPE OF ERROR Error
	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct	Incorrect		
Ceftriaxone	≤19	≥4	RESISTANT	✓		-1 0 1 (2)	mE/ ME/ VME
Amikacin	≥17	≤16	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Piperacillin-tazobactam	≤17	≥128/4	RESISTANT		✓	(-1) 0 1 2	mE/ ME/ (VME)
Meropenem	≥23	≤1	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Ciprofloxacin	≥25	≤0.5	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME

#### FEBRUARY 2021 / SEROLOGY

Test method employed for detection C-reactive protein (CRP) at your lab: Turbidimetry

Peer group (n) = 392

Please refer the attached evaluation format for details on the criteria for evaluation

	Parameter	Your Result	Your Value (mg/L)	Intended Result	Robust Mean	Robust SD	Range (mg/L)	Z & Z' score	Max Marks	Your Score
SE1	CRP	Negative	1.97	Negative	2.3108	1.1367	0.0 to 70.50	-0.3	2	2
SE2	CRP	Negative	2.03	Negative	2.5183	1.0460	0.0 to 55.04	-0.5	2	2
SE3	CRP	Positive	54.42	Positive	58.3223	11.0118	1.0 to 739.1	-0.4	2	2