

### 2020: 14th IAMM EQAS Microbiology: Bacteriology/ Serviogy Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu Email: eqas@cmcvellore.ac.in Phone: 0416-2282588



# NABL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018

Last date for receiving reports: July 15, 2020

Member Id:

W

### MARCH 2020 / BACTERIOLOGY SMEARS:

**Evaluation format:** Question: Carry out the appropriate staining procedure and document the relevant observation.

Presence and grading of host cells & debris (many/ moderate/few/no) (1 mark)

Presence & grading of organism/s gram stain finding, morphology (shape), arrangement and any other special characteristics observed (2 marks)

Interpretation: Probable organism OR Impression- as asked in the question (1 mark)

SM2	IWS	Exercise Number
Please carry out a Gram stain on the given fixed smear prepared from an EXUDATE specimen of a 23 year old man presenting with an exudative lesion on the right leg associated with high grade fever, chills and myalgia for 2 days	Please carry out a Gram stain on the given fixed smear prepared from a voided URINE specimen of a 63 year old diabetic lady with a history of mild dysuria and increased frequency for 2 days.	Question
Presence of host cells & debris (1mark): Many pus cells.  Background filled with debri  Description of Organism/s (2 marks):  Many gram positive cocci in single pairs and chains seen  Possible organism (1 mark): Streptococcus, pyogenes.	Presence of host cells & debris (1mark):  Pew cells - rare; Cprithewal cells - Few  Description of Organism/s (2marks):  Many gram possitive coeci in single, pairs & short chains  and many gram regative long stander bacelli along  cuith few gram regative coeci in pairs and candidasan.  Impression/comment (1 mark):  Improper collection, "mid stream clear catch" wine  Improper collection, "mid stream clear catch" wine	Report Evaluation

SM3 saturation. the ICU with worsening year old gentleman admitted in on the given fixed smear ENDOTRACHEAL Please carry out a Gram stain ASPIRATE specimen of a 69 prepared from an Presence of host cells & debris (1mark): Many pus cells.

Background filled with debris. Possible organism (1 mark): A cinetabacter baumanic along Many gram regative coccobacilli seen. Few gram regative diplococci seen. Description of Organism/s (2 marks): with probably moraxella.

### MARCH 2020 / BACTERIOLOGY CULTURE:

appropriate techniques for each exercise and identify the pathogen. Carry out the antimicrobial susceptibility testing according to the panel given below. Question: A freeze-dried (lyophilized) culture of an organism isolated from a clinical specimen is given. Carry out the

# INSTRUCTION: RECONSTITUTION OF LYOPHILIZED CULTURES

safety cabinet Type 2A2 standard safety procedures and usual universal precautions when handling this material. It is advised to open the vial in a Bio-The vial containing freeze-dried material must be handled carefully. These vials contain infectious organisms. Please follow

#### Opening of the lyophilized vial

- The lyophilized material provided must be rehydrated. When reconstituting them, exercise extreme caution not to create aerosols or spills.
- Do not mouth pipette.
- . Reconstitute when you are ready to inoculate onto culture plates
- Do not remove the whole cap. Lift only the pre-cut section of the metal cap
- 5. Disinfect the rubber stopper with 70% alcohol/ rectified spirit.
- With a sterile needle and syringe pierce the rubber cap and inoculate the rehydrating broth.

Page 2 of 7

#### Re-hydration and Recovery

- Add about 0.5ml of Nutrient broth using a sterile needle and syringe.
- Gently swirl the vial and allow 5-10 minutes for the dried material to rehydrate completely.
- Hold the vial vertically.
- Draw the reconstituted fluid up into the syringe slowly.
- Separate the needle tip from the syringe carefully
- Incubate both vial with remaining contents and plate cultures in the appropriate environment ambient / CO2 incubator at 35-Inoculate the specimen / organism appropriate enriched and/or selective media to facilitate recovery of the organisms
- Overnight vial contents can be sub cultured again, if required

37°C as per routine procedures

After use decontaminate and then discard the vial according to your hospital / lab policy.

been confirmed by conventional, automated and molecular methods. Note: The viability and culture purity of all batches of lyophilized cultures have been verified prior to packing. The identification has

#### EVALUATION FORMAT:

Susceptibility testing: (2 marks per drug) characteristics (2 marks), Final identification (2 marks) Culture microscopy & identification: Microscopy (1mark), culture characteristics (2 mark), Biochemical key identification.

automated report MUST be attached along with the report for the evaluator's reference. For culture identifications or susceptibility tests that have been performed by automated systems, the printouts of the ✓HOWEVER, THIS REPORT SHEET MUST BE COMPLETED BY YOU.

#### Susceptibility interpretation errors:

Minor error (mE) : Susceptible / resistant isolate reported as intermediate susceptible (1 mark)

Major error (ME): Susceptible isolate reported as resistant (0 marks)

Very major error (VME): Resistant isolate reported as susceptible (-1 marks)

 $\checkmark~ ext{VITEK/E-test MIC}$  will be awarded the complete mark if the interpretation is consistent with the expected report.

with abdominal pain. CU 1: Isolated from a FECES specimen of a 26year old gentleman with a 2 day history of diarrhea and vomiting associated

Cram regative NA: Scanty growth of Catalane Positive pate yellow scolowed short stim medium sized aclowed oxidence - Positive curved comma with medium sized aclowed oxidence - Positive shaped rods with regular edger sean. Indote - Positive Negative.  Shaped rods with regular edger sean. Indote - Positive - Negative.  BA: Beta haemolytic, citiate - Positive.  Moderate growth, large. Urease - Positive.  Highly mottle colonies.  Mac: Non lactose fermer mind. Manutol fermented mottle.  Seroty (if applicable)	? O'139 Cas it is	choleras	Vibrio	Sycan organism
Catalane - Positive  Oxidane - Positive  en. Indole - Positive  Citiale - Negative.  Citiale - Positive.  Ureane - Positive.  TSI - A/A No gas No Has  TSI - A/A No gas Mo Has  monted  motile	Serotype (if applic	Species	Genus	FINAL Identification of
Catalane - Positive  Oxidane - Positive  en Indole - Positive  Catala - Negative.  Cureane - Positive.  TSI - A/A No gas, No Mas		ferme	Mac: Non lactose fermer-	0
Catalane - Positive  Oxidane - Positive  en Indole - Positive  Catale - Negative.  Cureane - Positive.		gas	colonies.	
Catalane - Positive  Oxidone - Positive  en Indole - Positive  Citiale - Negative.	5 5. I			
Catalane - Positive  Oxidane - Positive  on. Indole - Positive	Detail:	1	RA: Beta harmolytics	
Catalane - Positive Oxidane - Positive	Automation	N.	with mucoid colonies	chancel roots
Catalone - Positive	TATABLE	ì	medium sized adonies	short sum
		Catalane - Positive	NA: Scanty growth of	Gram negative
	identification:	MAIN / KEY identification characteristics required for	characteristics	Gram stain / motility

Method Details if Automation: (e.g. Vitek – 2, Microscan etc.)	Interpretation (S/MS/R)	Zone size (mm) OR MIC(µg/ml) 20 かが	Antibiotics Ampicill
	<i>S</i> .	M 26 MM	in Tetracycline
	Ь	ا ا ا ا ا ا	Co-trimoxazole
-	6	S 2 M 75	Cefotaxmine
	S	es e mm	Ciprofloxacin

mucoid

Please note:

1. Provide only ONE FINAL susceptibility report for each drug tested. If two reports with discrepant interpretations are reported, they will be marked as an incorrect answer henceforth.

2. Incomplete forms will NOT be evaluated henceforth.

CU 2: Isolated from a URINE specimen of a 35year old gentleman with hemiplegia on a long term trinary catheter

Oxidase - Neg  Indole - Neg  Cetrale - Pos  Cetrale - Pos  Nos	Serotype (if applicable)	MMM - Mannital fermented mobile  Species	Genus Colonies,
Oxidare - Negative Indole - Negative Urease - Positive		Citialia - Pos TSI - K/A cu	BA: Beta haemolytic deep red colowed colonies:
Oxidase - Negative	Automation Detail:	Indole -	smooth glistening surface and regular edges seen.
- 010/010 -	Manual	Catalane -	NA: Moderate, growth of medium, sixed red coloured

Interpretation (S/MS/R) S , S , R	Zone size (mm)   OR   OR   MIC(μg/ml)   A 9   A 4   1 A	Antibiotics Cefpodoxime Co-trimoxazole Amoxicilin-clavulanate I
8	3 0	Levofloxacin
5	26	Meropenem

Please note:

1. Provide only ONE FINAL susceptibility report for each drug tested. If two reports with discrepant interpretations are reported, they will be marked as an incorrect answer henceforth.

2. Incomplete forms will NOT be evaluated henceforth.

CU 3: Isolated from an EXUDATE specimen from a 22year old lady with a history of extensive burns to her right forearm.

Method Details if Automation: (e.g. Vitek – 2, Microscan etc.)	Interpretation (S/MS/R)	Zone size (mm) OR MIC(µg/ml)	Antibiotics
	R .	Q 18	Cefoxitin
	. 4	26 mm	Erythromycin
	い	30 mm	Co-trimoxazole
	6	2 s mm	Clindamycin
	8	SS >~~	Linezolid

Please note:

1. Provide only ONE FINAL susceptibility report for each drug tested. If two reports with discrepant interpretations are reported, they will be marked as an incorrect answer henceforth.

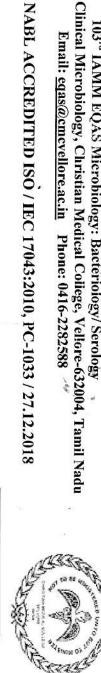
2. Incomplete forms will NOT be evaluated henceforth.

	¥ *
Please indicate the exercises that you have participated in: Bacteriology smears	Cultures Serology
2	
Signature / Seal: $ALJ$ .	Date of dispatch: 14-7-2020.
Dr. JOHN FRASAD, W.D., Reg. No. 79307	
Member ID:	
SM 1 SM2 SM3 CU1 CU2 CU3 SE1	SE2 SE3 Marks obtained
4 4 - 17 17 17 2	2 2 Maximum mark
	A @
TOTAL MARKS:	4
Evaluator name / Signature	Date



### Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu 103rd IAMM EQAS Microbiology: Bacteriology/ Serology

Email: eqas@cmcvellore.ac.in Phone: 0416-2282588



OCTOBER 2019

103rd EQAS EVALUATION REPORT

MEMBER ID:

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Marks Obtained: 61.5 / 65 (94.6%)

## OCTOBER 2019 / 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 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  Please carry out a Gram stain	Expected Report
SM1	Please carry out a Gram stain on the given fixed smear	Presence of host cells & debris (1mark): Many pus cells
	prepared from a Pleural fluid specimen of a 74 year old	Organism (2marks): Many Gram positive (oval / flame/ lanceolate) shaped cocci in pairs.
	gentleman with a history of	•
50. 10	high grade fever associated with	Possible organism (1 mark): Streptococcus pneumoniae
	cough, breathlessness and chest	
SM2	Please carry out a Gram stain	Presence of host cells & debris (1mark): No nus cells
045	on the given fixed smear	
25.00	prepared from a throat swab	Organism (2 marks): Many Gram positive slender, club shaped bacilli
No.	specimen of a 6 year old girl	arranged in-a cuneiform (X and V letter pattern/ Chinese letter)
400	with history of low grade fever	arrangement.
	for 3 days associated with sore	Possible organism (1 mark): Corynebacterium species
2000	throat and stridor.	(Corynebacterium diphtheria)

			SM3
Please provide the report as per the RNTCP grading format.	gentleman with a history of low grade fever and productive cough for 3 weeks.	Neelsen stain on the given fixed smear prepared from a sputum specimen of a 45 year old	.Please carry out a Zight
Seen / 100 oil immersion fields)	gentleman with a history of low grade fever and productive cough for 3 weeks.  FINAL REPORT (2 marks): Acid-fast bacilli seen - Probably Mycobacterium tuberculosis  RNTCP grading: 1+ (Few AFB)	Organism (2 marks): Long, slender, acid fast bacilli with a beaded appearance	
w	1.5	0	
3.5	2	0.5	
4	2.5	1 .	

## OCTOBER 2019 / BACTERIOLOGY CULTURE:

techniques for each exercise and identify the pathogen. Carry out the antimicrobial susceptibility testing according to the panel given Question: A freeze-dried (lyophilized) culture of an organism isolated from a clinical specimen is given. Carry out the appropriate

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

A 'partially correct' or 'incorrect' component of the participant report which has resulted in a deduction of marks has been in indicated

CU1: Isolated from a blood culture specimen of a 72 year old gentleman admitted with high grade fever, chills and increasing somnolence

### FINAL INDENTIFICATION: Escherichia coli

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

	sceptibility		EXPECTED REPORT	REPORT	PARTIC PANT REPORT	T REPORT	MARK	TYPE OF ERROR
,	THE PROPERTY OF THE PROPERTY O	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct	Incorrect	10 marks	Error
	Ceftazidime	≤17	≥16.0	Resistant	<		-1 0 1(2)	mE/ME/VME
	Cefotaxime	6mm (≤22 R)	≥4.0	Resistant	<		-1 0 1(2)	mE/ME/VME
	Amikacin	≥17	≤16.0	SUSCEPTIBLE	<		-1 0 1(2)	mE/ME/VME
	Ciprofloxacin	6mm (\(\leq 21 R\)	≥1.0	Resistant	<		-1 0 1(2)	mE/ME/VME
	Meropenem	≥23		SUSCEPTIBLE	<		-1 0 12	mE/ME/VME

lower limb. She had been discharged from hospital 8 days ago with healing ulcers and had been advised daily dressings. CU2: Isolated from an exudate specimen of a 65 year old diabetic lady who presented casualty with an exudative burn ulcer on her left

### FINAL IDENTIFICATION: Shewanella algae

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	•		0 0.5
Salient culture and hischamical findings and line find			(
identification	2		)
(Minimum 3 key characteristics)			1 2 3 4
Final identification	<		0 0.5 1 1.5(2

Susceptibility report		EXPECTE	EXPECTED REPORT	PARTICIPANT REPORT	T REPORT	MARK	TYPE OF ERROR
,	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct	Incorrect	8 marks	Error
Ceftazidime	re pr	≤8.0	Susceptible				
Amikacin	Dis er er Ed	≤16.0	Susceptible				
Piperacillin/ Tazobactam	ou ou	≤16.0/4	Susceptible		NOT EV	ATTIATED	
Ciprofloxacin	M-I əpu	≥4.0	RESISTANT		NOTE	NOTEVALUATED	
Imipenem	01 8 p	8.0	Intermediate susceptible				
	O SI	(BMD)	)				

\*Disk diffusion reports NOT evaluated.

the prostate gland. CU3: Isolated from a urine specimen of a 66 year old gentleman on an indwelling urethral catheter, following trans-urethral resection of

FINAL IDENTIFICATION: Staphylococcus epidermidis

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	<		0 0.5
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)		,	1 2 3 🕘
Final identification	<	Species Incorrect	$0  0.5 \ \bigodot 1.5$

Susceptibility		EXPECTED REPORT	REPORT	PARTICIPANT REPORT	T REPORT	MARK	TYPE OF ERROR
report	Zone size	MIC	Interpretation	Correct	Incorrect	10 marks	Error
Cefoxitin	≥18	Oxacillin	Susceptible	<		-1 0 1(2)	mE/ME/VME
Nitrofurantoin	≥17	≤32.0	Susceptible	<		-1 0 12	mE/ME/VME
Co-trimoxazole	≥16	<2.0/38	Susceptible	<		-1 0 1(2)	mE/ME/VME
Ciprofloxacin	≥21	≤1.0	Susceptible	<		-1 0 10	mE/ME/VME
Linezolid	≥21	≤4.0	Susceptible	<		-1 0 1②	mE/ME/VME

#### OCTOBER 2019 / SEROLOGY

Test method employed for detection C-reactive protein (CRP) at your lab: Turbidimetry Peer group (n) = 342

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

	,	r	Lucios
SE3	SE2	SE1	
CRP	CRP	CRP	Parameter
Positive	Positive	Positive	Your Result
60.1	14.4	18.8	Your Value (mg/L)
Positive	Positive	Positive	Intended Result
41.1027	9.5119	7.8969	Robjust Mean
8.3918	2.7355	2.2991	Robust SD
0.1 to 112.4	0.58 to 53.9	0.43 to 91.0	Range (mg/L)
2.2	1.8	4.7	Z & Z' score
2	2	2	Max Marks
1.5	2	1	Your Score
	CRP Positive 60.1 Positive 41.1027 8.3918 0.1 to 112.4 2.2 2	CRP         Positive         14.4         Positive         9.5119         2.7355         0.58 to 53.9         1.8         2           CRP         Positive         60.1         Positive         41.1027         8.3918         0.1 to 112.4         2.2         2	CRP         Positive         18.8         Positive         7.8969         2.2991         0.43 to 91.0         4.7         2           CRP         Positive         14.4         Positive         9.5119         2.7355         0.58 to 53.9         1.8         2           CRP         Positive         60.1         Positive         41.1027         8.3918         0.1 to 112.4         2.2         2

#### OCTOBER 2019 / SEROLOGY

Test method employed for detection Widal at your lab: Tube Agglutination

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

	raiailleter	SE1 W		SE2 W
	ter	Widal	Widal	
Your Interpretation	Correct	1	1	<b>S</b>
oretation	Incorrect	•		
	STO	Negative Negative	Negative	Negative
	STH	Negative	Negative   Negative	Negative Negative
Intended Result	SPAH	Negative	Negative	Negative
sult	SPBH	Negative	Negative	Negative
	Interpretation	Negative	Negative	Negative
Max	Marks	2	2	2
Your	Score	. 2	2	2

#### Disclaimer:

This is a confidential document and subject to the rules of confidentiality as described by the ISO 17043:2010 standard.

MEMBER ID:

4   4   17   7   17	3.5 4 3.5 17 7 1,6	SM 1 SM2 SM3. CU1 CU2 CU3
4	<b>3</b>	SE1 SE2
4	3.5	SE3
Maximum marks = 65	61.5	Marks
marks = 65	94.6%	Marks obtained

\* amaria

Dr. Rani Diana Sahni Scientific Co-ordinator

Dr. John A Jude Prakash Quality Manager

Dr. V. Balaji

PT Co-ordinator

Report Dispatch Date: 15.02.2020

\* End of Report \*\*\*\*\*\*\*\*\*\*\*\*\*\*



#### Department o' Ninical Microbiology, Christian Medical C Jege, Vellore-632004, Tamil Nadu Email: eqas@cmcvellore.ac.in Phone: 0416-2282588 MICROBIOLOGY EXTERNAL QUALITY ASSESSMENT SCHEME IAMM EQAS Microbiology: Bacteriology/ Serology



Under the aegis of Indian Association of Medical Microbiologists

NABL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018

**JUNE 2019** 

### 102<sup>rd</sup> EQAS EVALUATION REPORT

MEMBER ID:

Marks Obtained: 74.5 / 77 (96.8%)

### JUNE 2019 / 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 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	Ħ	Evaluation	8
SMI	Please carry out a Gram stain on the given fixed smear prepared from a <b>BLOOD</b> culture of a 45 year old	Organism: Gram positive spherical cocci arranged in pairs, short chains and predominantly long chains. (2)	0	0.5	
	gentleman with a history of low grade intermittent fever for 3 weeks	Impression and probable organism: Case of PUO- Probable case of infective endocarditis. Probably caused by Streptococcus spp - Viridans	1.5	2	2.5
	and worsening breathlessness.	Streptococcus. (2)	ယ	3.5	(4)
SM2	Please carry out a Gram stain on the given fixed smear prepared from a	Presence of host cells & debris: Many pus cells (1)	0	0.5	
	with a history of high grade fever, irritability and vomiting.	Organism: Many Gram negative coccobacilli, short slender bacilli and long slender bacilli. [Pleomorphism seen] (2)	1.5	2	2.5
	,	Possible organism: Probably Hemophilus species (1)	ω.	بر بر	

	SM3
old lady with a history of burns to her right forearm.	Please carry out a Gram stain on the given fixed smear prepared from an <b>EXUDATE</b> specimen of a 21 year
Organism: Many Gram negative long, slender bacilli and Gram negative short, plump bacilli seen. (2)	Presence of host cells & debris: Many pus cells (1.0). [NO epithelial cells]
1.5	0
	0
2	0.5
	a history of burns to her Organism: Many Gram negative long, slender bacilli and Gram negative short, plump bacilli seen. (2)

### JUNE 2019 / BACTERIOLOGY CULTURE:

each exercise and identify the pathogen. Carry out the antimicrobial susceptibility testing according to the panel given below. Question: A freeze-dried (lyophilized) culture of an organism isolated from a clinical specimen is given. Carry out the appropriate techniques for

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

evaluation report below. A 'partially correct' or 'incorrect' component of the participant report which has resulted in a deduction of marks has been in indicated in the

fever and cough with increasing breathlessness. CU1: Isolated from a sputum specimen of a 55 year old gentleman with a history smoking for the past 30 years and admitted with high grade

FINAL INDENTIFICATION: Klebsiella pneumoniae subspp pneumoniae (no marks deducted if subspecies was not mentioned)

MIC Interpretation (µg/ml)	pretation	P.	PARTICIPANT REPORT  Pretation Correct Incorrect
erpretation	pretation	PARTICIPANT REPORT  Pretation Correct Incorrect	PARTICIPANT REPORT  Pretation Correct Incorrect
	PARTICIPAN Correct	PARTICIPANT REPORT  Correct Incorrect	1

dysuria. CU2: Isolated from a urine specimen of a 22 year old married woman with a 2 day history of increased urgency, frequency of micturition and

## FINAL IDENTIFICATION: Staphylococcus saprophyticus

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	•		0 0.5 1 1.5 (2

Susceptibility report		EXPECTED REPORT	REPORT	PARTICIPANT REPORT	AT REPORT	MARK
3	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct	Incorrect	10 marks
	(mm)	(µg/ml)				
Cefoxitin	27	≤4.0	Susceptible	<		-1 0 IC
Co-trimoxazole	30	≤2.0	Susceptible	<		-1 0 10
Nitrofurantoin	21	<32.0	Susceptible	<		-1 0 1(2)
Ciprofloxacin	24	€1.0	Susceptible	<		-1 0 1 (2)
Linezolid	30	≤4.0	Susceptible	<		-1 0 1 <b>©</b>

CU3: Isolated from stool specimen of a 45 year old gentleman with a history of abdominal pain, frequent loose stools and fatigue for 2 days.

	EZ
	AL ID
	ENT
	FINAL IDENTIFICATION: Salm
	HON:
	Salm
	onella
	nella enterica subsp enterica serovan
	ca sub
100	sp ente
	erica s
	erovar
	ır Typhi
	muriu
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	1
	5 - 1,5 m i 5
	\$

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

Susceptibility report		EXPECTED REPORT	REPORT	PARTICIPANT REPORT	NT REPORT	MARK	TYPE OF ERROR
, spore	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct	Incorrect	10 marks	Error
Amnicillin	2	700				)	
Ampicillin	24	≤8.0	Susceptible	• <		-1 0 1 (2)	mE/ME/VME
Chloramphenicol	24	≤8.0	Susceptible			-1 0 10	mE/ME/VME
Co-trimoxazole	28	$\leq 2.0$ (0.125)	Susceptible	<		-1 0 1(2)	m <b>E</b> /ME/VME
Ceftriaxone	30	$\leq 1.0$ $(0.047)$	Susceptible	•		-1 0 1(2)	mE/ME/VME
Ciprofloxacin	33	$\leq 0.25$ (0.015)	Susceptible	<		-1 0 1 2	mE/ME/VME

#### JUNE 2019 / SEROLOGY

Test method employed for detection C - reactive protein at your lab: <u>Turbidimetry</u>

Peer group (n) = 339

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

62 1031   14.8079   0.76 - 145	
1.2641 0.0 - 50.65	
1.2276 0.0 – 43.92	
Robust Range SD (mg/L)	

Test method employed for detection Antistreptolysin O (ASO) your lab: <u>Turbidimetry</u>

Peer group (n) = 177

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

1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			
SE3	SE2	SE1	
ASO	ASO	ASO	Parameter
Negative	Negative	Negative	Your Result
128	86	83	Your Value (IU/mL)
Negative	Negative	Negative	Intended Result
138.059	87.4985	94.8569	Robust Mean
45.1067	87.4985 29.2287	32.0891	Robust SD
33 – 374.2 -0.3	0.32 - 254.3 -0.1	3.87 – 236.9 -0.4	Range (IU/mL)
-0.3	-0.1	-0.4	Z/Z' score
2	2	2	Max Marks
2	2	2	Your Score

#### Disclaimer:

This is a confidential document and subject to the rules of confidentiality as described by the ISO 17043:2010 standard.

#### MEMBER ID: M 0 5 3 2

Maximum marks = 7	4	4	4	17	17	19		4	4	E. July M. Service
74.5 90.8%	ų		•					10		3001
	_	n n	2	17	17	19	4	4	4	of the co
Marks obtained	SE3	SE2	SE1	ĆU3	CU2	CUI	SM3	SM2	SM 1	

Mundana

Dr. Rani Diana Sahni Scientific Co-ordinator

Report Dispatch Date: 31.10.2019

Dr. V. Balaji PT Co-ordinator

**Quality Manager** 

Dr. John A Jude Prakash