

برگشت (/IACLD/Panel/Labs/Answers/31274)

دوره چهل و سوم پائیز 1401

## M1 Results

## تشخیص میکروارگانسیم

کد نمونه 1445	EQAP-18136	آزمایشگاه پاتوبیولوژی و ژنتیک رصد
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تشخیص صحیح	✓
تشخیص نیمه صحیح	●
تشخیص آزمایشگاه شما	➔

## جدول شماره 1

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Staphylococcus epidermidis	556	%63.69	✓
	Staphylococcus saprophyticus	124	%14.20	●
➔	Staphylococci , Coagulase-negative (CoNS)	65	%7.45	●
	Staphylococcus aureus	44	%5.04	●
	Pseudomonas aeruginosa	14	%1.60	
	Not Reported	11	%1.26	
	Staphylococci , Coagulase-positive	7	%0.80	●
	Yersinia enterocolitica	7	%0.80	
	Staphylococcus spp.	7	%0.80	●
	Staphylococcus simulans	4	%0.46	●
	Enterococcus faecalis	3	%0.34	
	Yersinia spp.	3	%0.34	
	Pseudomonas spp.	3	%0.34	
	Streptococcus spp.	3	%0.34	
	Micrococcus spp.	2	%0.23	
	Klebsiella pneumoniae subsp. ozaenae	2	%0.23	
	Klebsiella oxytoca	2	%0.23	
	Streptococci , Non-hemolytic	1	%0.11	
	Streptococcus agalactiae (Beta-hemolytic group B)	1	%0.11	
	Staphylococcus lugdunensis	1	%0.11	●
	Yersinia pseudotuberculosis	1	%0.11	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Proteus penneri	1	%0.11	
	Streptococci , Alpha-hemolytic	1	%0.11	
	Klebsiella pneumoniae subsp. pneumoniae	1	%0.11	
	Staphylococcus haemolyticus	1	%0.11	●
	Staphylococcus intermedius	1	%0.11	●
	Escherichia coli	1	%0.11	
	Klebsiella spp.	1	%0.11	
	Salmonella spp.	1	%0.11	
	Staphylococcus hominis	1	%0.11	●
	Streptococci , Beta-hemolytic Non group A or B	1	%0.11	
	Enterobacter aerogenes	1	%0.11	
	Proteus vulgaris	1	%0.11	

## جدول شماره 2

درصد	تعداد	تشخیص های درست	درصد	تعداد	نمونه های فرستاده شده
64.50	556	تشخیص های درست	922	922	نمونه های فرستاده شده
29.58	255	تشخیص های نیمه درست	94.69	873	جوابهای دریافتی (تعداد موارد ثبت شده)
5.92	51	تشخیص های اشتباه	98.74	862	جوابهای دارای تشخیص
			1.26	11	جوابهای بدون تشخیص

## جدول شماره 3

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	ADH (Arginine dihydrolyse)	4	%0.46	Neg Pos		1 3	%25.00 %75.00	
	Amikacin	21	%2.41	S		21	%100.00	
	Amoxicillin	12	%1.37	S R		3 9	%25.00 %75.00	
	Amoxicillin-clavulanic acid	2	%0.23	R		2	%100.00	
	Ampicillin	24	%2.75	R S		15 9	%62.50 %37.50	
	Ampicillin Susceptibility Test	7	%0.80	S R		2 5	%28.57 %71.43	
	Ampicillin-sulbactam	1	%0.11	R		1	%100.00	

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	Amygdalin	1	%0.11	Neg		1	%100.00	
	Azithromycin	26	%2.98	R S		4 22	%15.38 %84.62	
→	Bacitracin 0.04 U Susceptibility Test	127	%14.55	R S	R	120 7	%94.49 %5.51	✓
	Bacitracin 10 U Susceptibility Test	25	%2.86	S R		3 22	%12.00 %88.00	
	Bacitracin Susceptibility Test	216	%24.74	R S	R	208 8	%96.30 %3.70	✓
	BGA (Brilliant Green Agar)	19	%2.18	1+ 3+ 2+		1 13 5	%5.26 %68.42 %26.32	
	BHI Agar (Brain Heart Infusion Agar)	29	%3.32	1+ 2+ 3+		1 9 19	%3.45 %31.03 %65.52	
	BSA (Bismuth Sulfite Agar)	3	%0.34	2+ 3+		1 2	%33.33 %66.67	
	CAMP Test	11	%1.26	Neg Pos		9 2	%81.82 %18.18	
	Carbenicillin Susceptibility Test	1	%0.11	S		1	%100.00	
→	Catalase Test	772	%88.43	Both Neg Pos	Pos	1 14 757	%0.13 %1.81 %98.06	✓
	Cefazolin	17	%1.95	R S		3 14	%17.65 %82.35	
	Cefepime	9	%1.03	S		9	%100.00	
	Cefixime	21	%2.41	R S		15 6	%71.43 %28.57	
	Cefotaxime	15	%1.72	S		15	%100.00	
	Cefoxitin	25	%2.86	S		25	%100.00	
	Ceftazidime	12	%1.37	R S		2 10	%16.67 %83.33	
	Ceftizoxime	11	%1.26	S R		9 2	%81.82 %18.18	

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	Ceftriaxone	23	%2.63	R S		1 22	%4.35 %95.65	
	Cephalexin	2	%0.23	S		2	%100.00	
	Cephalothin	4	%0.46	S		4	%100.00	
	Cephalothin Susceptibility Test	1	%0.11	R		1	%100.00	
→	CHA (Chocolate Agar)	227	%26.00	1- 1+ 3+ 2+		6 4 185 32	%2.64 %1.76 %81.50 %14.10	
	Chloramphenicol	7	%0.80	R S		2 5	%28.57 %71.43	
	CHROMagar Orientation	1	%0.11	3+		1	%100.00	
	Ciprofloxacin	68	%7.79	S R		66 2	%97.06 %2.94	
	Citrate (Simmons) (C)	63	%7.22	Both Neg Pos		1 42 20	%1.59 %66.67 %31.75	
	Clindamycin	32	%3.67	S R		30 2	%93.75 %6.25	
	Cloxacillin	1	%0.11	R		1	%100.00	
→	Coagulase Test / Slide (clumping factor)	336	%38.49	Neg Both Pos	<b>Neg</b>	300 2 34	%89.29 %0.60 %10.12	✓
→	Coagulase Test / Tube	568	%65.06	Neg Pos Both	<b>Neg</b>	531 36 1	%93.49 %6.34 %0.18	✓
	Colistin	1	%0.11	R		1	%100.00	
	Colistin Susceptibility Test	1	%0.11	R		1	%100.00	
	Colony Size > 0.5 mm at 24hrs	2	%0.23	Pos		2	%100.00	
	D-Glucose, acid	6	%0.69	Neg Pos	<b>Pos</b>	3 3	%50.00 %50.00	✓
	D-Glucose, gas	4	%0.46	Neg Pos		2 2	%50.00 %50.00	

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	D-Mannitol fermentation	46	%5.27	Neg Both Pos	<b>Neg</b>	40 1 5	%86.96 %2.17 %10.87	✓
	D-Mannose fermentation	9	%1.03	Both Neg Pos	<b>Pos</b>	1 2 6	%11.11 %22.22 %66.67	✓
→	DNase (25° / 35° C)	185	%21.19	Both Pos Neg	<b>Neg</b>	4 11 170	%2.16 %5.95 %91.89	✓
	Doxycycline	11	%1.26	R S		7 4	%63.64 %36.36	
	D-Xylose fermentation	4	%0.46	Neg	<b>Neg</b>	4	%100.00	✓
→	EMB (Eosin Methylene Blue agar)	738	%84.54	1- 1+ 3+ 2+		641 37 42 18	%86.86 %5.01 %5.69 %2.44	
	Erythromycin	42	%4.81	S R		41 1	%97.62 %2.38	
	Esculin hydrolysis	5	%0.57	Pos Neg	<b>Neg</b>	1 4	%20.00 %80.00	✓
	Fluorescein / Pyoverdin	1	%0.11	Pos		1	%100.00	
→	Furazolidone Susceptibility Test	25	%2.86	S R	<b>S</b>	24 1	%96.00 %4.00	✓
	GAS / (TSI)	15	%1.72	Neg Pos		11 4	%73.33 %26.67	
	Gelatin hydrolysis (22° / 35° C)	1	%0.11	Neg		1	%100.00	
	Gentamicin	65	%7.45	S R		63 2	%96.92 %3.08	
	Germ Tube Test	1	%0.11	Pos		1	%100.00	
	Glycerol fermentation	1	%0.11	Pos		1	%100.00	

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→	Gram Stain	833	%95.42	G- Cocci, in Cha G+ Coccobacilli G- Coccobacilli G+ Diplococci G- Bacilli G+ Cocci, in Clu G+ Bacilli G- Cocci G+ Cocci, in Cha G+ Cocci G+, in Cluster	<b>G+ Cocci</b>	2 26 2 19 32 90 12 1 26 603 20	%0.24 %3.12 %0.24 %2.28 %3.84 %10.80 %1.44 %0.12 %3.12 %72.39 %2.40	✓
	Growth at 45°C	1	%0.11	Neg		1	%100.00	
	Growth in 6% NaCl broth/agar	8	%0.92	Pos		8	%100.00	
	Growth in 6.5% NaCl broth	18	%2.06	Neg Pos	<b>Pos</b>	3 15	%16.67 %83.33	✓
	Growth in 8% NaCl broth/agar	2	%0.23	Neg Pos		1 1	%50.00 %50.00	
	H2S / (TSI)	39	%4.47	Pos Neg		4 35	%10.26 %89.74	
	HEA (Hektoen Enteric Agar)	5	%0.57	1-		5	%100.00	
	Hemolysis ( Non )	53	%6.07	Neg Pos		39 14	%73.58 %26.42	
	Hemolysis (Alpha)	7	%0.80	Pos Neg		3 4	%42.86 %57.14	
	Hemolysis (Beta)	29	%3.32	Neg Pos		16 13	%55.17 %44.83	
	Hippurate hydrolysis Test	2	%0.23	Neg Pos		1 1	%50.00 %50.00	
	Hydrolysis of Esculin/ Bile Esculin Agar	26	%2.98	Neg	<b>Neg</b>	26	%100.00	✓
	Imipenem	13	%1.49	S R		11 2	%84.62 %15.38	
	Indole ( I )	48	%5.50	Pos Neg		1 47	%2.08 %97.92	
	Kanamycin	6	%0.69	R S		2 4	%33.33 %66.67	
	KOH (3%) String Test	3	%0.34	Neg Pos		2 1	%66.67 %33.33	

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	Lactose fermentation	12	%1.37	Neg Pos		5 7	%41.67 %58.33	
	LAP Test - Leucine aminopeptidase	1	%0.11	Neg		1	%100.00	
	LDC (Lysine decarboxylase)	6	%0.69	Pos Neg		2 4	%33.33 %66.67	
	Levofloxacin	12	%1.37	S		12	%100.00	
	LIA	20	%2.29	R/A K/A k/k		1 9 10	%5.00 %45.00 %50.00	
	Linezolid	3	%0.34	S		3	%100.00	
	MacConkey Agar	245	%28.06	3+ 2+ 1- 1+		7 3 232 3	%2.86 %1.22 %94.69 %1.22	
	Malonate utilization	3	%0.34	Neg		3	%100.00	
	Maltose fermentation	14	%1.60	Pos	Pos	14	%100.00	✓
→	Mannitol Salt Agar	292	%33.45	Pos Neg Both	Neg	34 253 5	%11.64 %86.64 %1.71	✓
	Melibiose fermentation	1	%0.11	Pos		1	%100.00	
	Meropenem	6	%0.69	S		6	%100.00	
	Methyl red (MR)	43	%4.93	Pos Neg		23 20	%53.49 %46.51	
	MHA (Mueller Hinton Agar)	55	%6.30	1+ 1- 3+ 2+		3 1 43 8	%5.45 %1.82 %78.18 %14.55	
	Motility	61	%6.99	Neg Pos Both		43 17 1	%70.49 %27.87 %1.64	
	Motility (25°C )	3	%0.34	Neg Pos		1 2	%33.33 %66.67	
	MSA (Mannitol Salt Agar)	70	%8.02	1+ 1- 3+ 2+		9 35 16 10	%12.86 %50.00 %22.86 %14.29	

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	N2 gas from Nitrate	1	%0.11	Neg		1	%100.00	
	NA (Nutrient Agar)	7	%0.80	2+ 3+		4 3	%57.14 %42.86	
	Nalidixic acid	31	%3.55	R S		28 3	%90.32 %9.68	
	NB (Nutrient Broth)	2	%0.23	2+ 3+		1 1	%50.00 %50.00	
	Nitrate reduction	1	%0.11	Pos		1	%100.00	
	Nitrofurantoin	59	%6.76	S R		53 6	%89.83 %10.17	
	Norfloxacin	8	%0.92	S		8	%100.00	
→	Novobiocin	374	%42.84	S R	S	319 55	%85.29 %14.71	✓
→	Novobiocin Susceptibility Test	404	%46.28	R S	S	65 339	%16.09 %83.91	✓
	O/129 Susceptibility Test	1	%0.11	R		1	%100.00	
	ODC (Ornithine decarboxylase)	8	%0.92	Neg Pos	Neg	6 2	%75.00 %25.00	✓
	O-F Test / Glucose	10	%1.15	Fermenter Oxidizer Nonoxidizer(Nonutilizer)		2 7 1	%20.00 %70.00 %10.00	
	O-F Test / Maltose	1	%0.11	Nonoxidizer(Nonutilizer)		1	%100.00	
	O-F Test / Mannitol	2	%0.23	Fermenter Oxidizer		1 1	%50.00 %50.00	
	Ofloxacin	7	%0.80	S R		6 1	%85.71 %14.29	
	ONPG test	25	%2.86	Both Neg Pos	Pos	1 11 13	%4.00 %44.00 %52.00	✓
	Optochin Susceptibility Test	22	%2.52	R		22	%100.00	
	Other	10	%1.15	2+ 3+		3 7	%30.00 %70.00	



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	Oxacillin	15	%1.72	R S		5 10	%33.33 %66.67	
	Oxidase Test	296	%33.91	Neg Pos		277 19	%93.58 %6.42	
	PAD (Phenylalanine deaminase)	2	%0.23	Neg		2	%100.00	
	Penicillin	62	%7.10	S R		11 51	%17.74 %82.26	
	Pigment 1	7	%0.80	Green Brown Red		4 1 2	%57.14 %14.29 %28.57	
	Pigment 2	8	%0.92	Yellow		8	%100.00	
	Pigment 3	3	%0.34	Violet Lavender-Green		1 2	%33.33 %66.67	
	Piperacillin	6	%0.69	R S		3 3	%50.00 %50.00	
	Piperacillin-tazobactam	1	%0.11	R		1	%100.00	
→	Polymyxin B	24	%2.75	S R	R	4 20	%16.67 %83.33	✓
→	Polymyxine B Susceptibility Test	39	%4.47	S R	R	5 34	%12.82 %87.18	✓
→	PYR Test - Pyrrolidonylarylamidase	4	%0.46	Neg	Neg	4	%100.00	✓
	Quinupristin-dalfopristin	1	%0.11	S		1	%100.00	
	Raffinose fermentation	2	%0.23	Neg Pos		1 1	%50.00 %50.00	
	Rifampin	4	%0.46	S		4	%100.00	
	Salicin fermentation	1	%0.11	Neg		1	%100.00	
→	SBA (Sheep Blood Agar)	762	%87.29	1+ 1- 3+ 2+		18 1 651 92	%2.36 %0.13 %85.43 %12.07	
	SMAC (Sorbitol-MacConkey agar)	2	%0.23	1-		2	%100.00	
	SS (Salmonella-Shigella agar)	3	%0.34	1+ 1-		1 2	%33.33 %66.67	

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→	Sucrose fermentation	14	%1.60	Neg Pos	Pos	1 13	%7.14 %92.86	✓
	Sulfamethoxazole	1	%0.11	S		1	%100.00	
	SXT Susceptibility Test	41	%4.70	R S		5 36	%12.20 %87.80	
	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	12	%1.37	1-		12	%100.00	
	TDA (Tryptophan deaminase)	2	%0.23	Neg Pos		1 1	%50.00 %50.00	
	Tellurite Tolerance Test	1	%0.11	Pos		1	%100.00	
	Tetracycline	29	%3.32	S R		5 24	%17.24 %82.76	
	Thioglycolate broth / Medium	6	%0.69	2+ 3+		1 5	%16.67 %83.33	
	Tigecycline	1	%0.11	S		1	%100.00	
	Tobramycin	1	%0.11	S		1	%100.00	
	Trehalose fermentation	5	%0.57	Neg		5	%100.00	
	Trimethoprim	1	%0.11	R		1	%100.00	
	Trimethoprim-sulfamethoxazole	77	%8.82	R S		10 67	%12.99 %87.01	
	TSA (Trypticase Soy Agar)	2	%0.23	3+		2	%100.00	
	TSB (Trypticase Soy Broth)	6	%0.69	3+ 2+		4 2	%66.67 %33.33	
	TSI	93	%10.65	K/A H2S+ K/A Gas- K/K A/A Gas+ A/A H2S+ A/A Gas-		4 9 16 7 4 53	%4.30 %9.68 %17.20 %7.53 %4.30 %56.99	
→	Urea hydrolysis / (Agar)	202	%23.14	Neg Pos Both	Pos	31 167 4	%15.35 %82.67 %1.98	✓
	Vancomycin	31	%3.55	R S		8 23	%25.81 %74.19	

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	Vancomycin MIC E test	11	%1.26	R S		2 9	%18.18 %81.82	
	Vancomycin Susceptibility Test	23	%2.63	R S		6 17	%26.09 %73.91	
	Voges-Proskauer (VP)	59	%6.76	Pos Neg	<b>Pos</b>	21 38	%35.59 %64.41	✓
	Voges-Proskauer (VP) / (25°C)	1	%0.11	Neg		1	%100.00	
	XLD (Xylose Lysine Deoxycholate agar)	40	%4.58	2+ 3+ 1-		2 1 37	%5.00 %2.50 %92.50	
	Yellow Pigment	8	%0.92	Neg Pos		6 2	%75.00 %25.00	

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