

برگشت (/IACLD/Panel/Labs/Answers/36745)

چاپ

دوره چهل و هفتم زمستان 1402

## M1 Results

## باکتری جدا شده از کشت زخم پای بیمار دیابتی مربوط به M2

کد نمونه 1976	EQAP-19374	آزمایشگاه کولایف
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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
→	<i>Pseudomonas aeruginosa</i>	1359	%80.37	✓
	<i>Pseudomonas spp.</i>	213	%12.60	●
	Not Reported	23	%1.36	
	<i>Pseudomonas alcaligenes</i>	11	%0.65	●
	<i>Enterobacter aerogenes</i>	9	%0.53	
	<i>Acinetobacter spp.</i>	6	%0.35	
	<i>Staphylococcus aureus</i>	6	%0.35	
	<i>Pseudomonas fluorescens</i>	4	%0.24	●
	<i>Citrobacter freundii</i>	4	%0.24	
	<i>Enterobacter cloacae</i>	3	%0.18	
	<i>Citrobacter spp.</i>	3	%0.18	
	<i>Serratia marcescens</i>	3	%0.18	
	<i>Escherichia coli</i>	3	%0.18	
	<i>Enterobacter spp.</i>	3	%0.18	
	<i>Enterococcus spp.</i>	3	%0.18	
	<i>Acinetobacter baumannii (Saccharolytic)</i>	3	%0.18	
	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	3	%0.18	
	<i>Serratia spp.</i>	2	%0.12	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Proteus vulgaris	2	%0.12	
	Klebsiella spp.	2	%0.12	
	Proteus mirabilis	2	%0.12	
	Salmonella spp.	2	%0.12	
	Staphylococci , Coagulase-negative (CoNS)	2	%0.12	
	Staphylococcus saprophyticus	2	%0.12	
	Providencia rustigianii	2	%0.12	
	Klebsiella oxytoca	1	%0.06	
	Enterococcus faecalis	1	%0.06	
	Hafnia alvei	1	%0.06	
	No bacteria isolated	1	%0.06	
	Proteus spp.	1	%0.06	
	Providencia rettgeri	1	%0.06	
	Citrobacter amalonaticus	1	%0.06	
	Streptococcus pyogenes (Beta-hemolytic group A)	1	%0.06	
	Serratia ficaria	1	%0.06	
	Streptococci , Beta-hemolytic	1	%0.06	
	Aeromonas spp.	1	%0.06	
	Streptococci , Alpha-hemolytic	1	%0.06	
	Pseudomonas pseudoalcaligenes	1	%0.06	●
	Micrococcus spp.	1	%0.06	
	Pantoea (Enterobacter) agglomerans	1	%0.06	
	Citrobacter farmeri	1	%0.06	

## جدول شماره 2

درصد	تعداد	تشخیص	درصد	تعداد	نمونه
81.47	1359	تشخیص های درست		1829	های فرستاده شده
13.73	229	تشخیص های نیمه درست	92.45	1691	جوابهای دریافتی (تعداد موارد ثبت شده)
4.80	80	تشخیص های اشتباه	98.64	1668	جوابهای دارای تشخیص
			1.36	23	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)	85	%5.03	Neg Both Pos	Pos	9 1 75	%10.59 %1.18 %88.24	✓
	Adonitol fermentation	5	%0.30	Neg Pos		4 1	%80.00 %20.00	
→	Amikacin	121	%7.16	R S		11 110	%9.09 %90.91	
	Amoxicillin	11	%0.65	S R		1 10	%9.09 %90.91	
	Amoxicillin-clavulanic acid	6	%0.35	R		6	%100.00	
	Ampicillin	66	%3.90	R S		58 8	%87.88 %12.12	
	Ampicillin Susceptibility Test	13	%0.77	S R		3 10	%23.08 %76.92	
	Ampicillin-sulbactam	2	%0.12	R		2	%100.00	
	Amygdalin	2	%0.12	Neg		2	%100.00	
	Azithromycin	16	%0.95	R S		5 11	%31.25 %68.75	
	Aztreonam	1	%0.06	S		1	%100.00	
	Bacitracin 0.04 U Susceptibility Test	6	%0.35	R S		2 4	%33.33 %66.67	
	Bacitracin 10 U Susceptibility Test	1	%0.06	R		1	%100.00	
	Bacitracin Susceptibility Test	7	%0.41	R S		5 2	%71.43 %28.57	
	BGA (Brilliant Green Agar)	42	%2.48	1- 1+ 2+ 3+		1 2 4 35	%2.38 %4.76 %9.52 %83.33	
	BHI Agar (Brain Heart Infusion Agar)	30	%1.77	1+ 2+ 3+		2 3 25	%6.67 %10.00 %83.33	

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	BSA (Bismuth Sulfite Agar)	6	%0.35	3+		6	%100.00	
	Carbenicillin	3	%0.18	S		3	%100.00	
	Carbenicillin Susceptibility Test	3	%0.18	R S		1 2	%33.33 %66.67	
	Catalase Test	688	%40.69	Neg Pos	Pos	15 673	%2.18 %97.82	✓
	Cefazolin	39	%2.31	R S		36 3	%92.31 %7.69	
	Cefepime	53	%3.13	R S		6 47	%11.32 %88.68	
	Cefixime	49	%2.90	R S		43 6	%87.76 %12.24	
	Cefoperazone	2	%0.12	S		2	%100.00	
	Cefotaxime	44	%2.60	R S		26 18	%59.09 %40.91	
	Cefoxitin	11	%0.65	R S		10 1	%90.91 %9.09	
	Cefpodoxime	2	%0.12	R S		1 1	%50.00 %50.00	
	Ceftazidime	95	%5.62	S R		80 15	%84.21 %15.79	
	Ceftizoxime	19	%1.12	S R		6 13	%31.58 %68.42	
	Ceftriaxone	67	%3.96	R S		27 40	%40.30 %59.70	
	Cellobiose fermentation	1	%0.06	Neg		1	%100.00	
	Cephalexin	10	%0.59	R S		9 1	%90.00 %10.00	
	Cephalothin	10	%0.59	R		10	%100.00	

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	Cephalothin Susceptibility Test	6	%0.35	R S		5 1	%83.33 %16.67	
	CHA (Chocolate Agar)	465	%27.50	1- 1+ 3+ 2+		4 10 396 55	%0.86 %2.15 %85.16 %11.83	
	CHROMagar Orientation	2	%0.12	2+ 1+		1 1	%50.00 %50.00	
	Ciprofloxacin	185	%10.94	S R		176 9	%95.14 %4.86	
→	Citrate (Simmons) (C)	1388	%82.08	Both Neg Pos	Pos	5 57 1326	%0.36 %4.11 %95.53	✓
	Clindamycin	6	%0.35	R		6	%100.00	
	Cloxacillin	1	%0.06	S		1	%100.00	
	Coagulase Test / Slide (clumping factor)	15	%0.89	Neg Pos		11 4	%73.33 %26.67	
	Coagulase Test / Tube	24	%1.42	Neg Pos		12 12	%50.00 %50.00	
	Colistin	6	%0.35	S R		5 1	%83.33 %16.67	
	Colistin Susceptibility Test	13	%0.77	R S		1 12	%7.69 %92.31	
	Colony on TCBS agar	4	%0.24	Green		4	%100.00	
	Colony Size > 0.5 mm at 24hrs	5	%0.30	Pos		5	%100.00	
	D-Glucose, acid	84	%4.97	Neg Pos		62 22	%73.81 %26.19	
	D-Glucose, gas	29	%1.71	Neg Pos		23 6	%79.31 %20.69	
	D-Mannitol fermentation	19	%1.12	Neg Pos		7 12	%36.84 %63.16	

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	D-Mannose fermentation	1	%0.06	Pos		1	%100.00	
→	DNase (25° / 35° C)	168	%9.93	Pos Neg	Neg	17 151	%10.12 %89.88	✓
	Doxycycline	7	%0.41	R S		6 1	%85.71 %14.29	
	D-Sorbitol fermentation	4	%0.24	Both Neg Pos		1 2 1	%25.00 %50.00 %25.00	
	Dulcitol fermentation	1	%0.06	Pos		1	%100.00	
	D-Xylose fermentation	5	%0.30	Neg Pos		2 3	%40.00 %60.00	
→	EMB (Eosin Methylene Blue agar)	1469	%86.87	3+ 2+ 1- 1+		1117 243 20 89	%76.04 %16.54 %1.36 %6.06	
	Erythromycin	12	%0.71	S R		5 7	%41.67 %58.33	
	Esculin hydrolysis	45	%2.66	Pos Neg	Neg	2 43	%4.44 %95.56	✓
	Fluorescein / Pyoverdin	12	%0.71	Pos		12	%100.00	
	Fosfomycin	8	%0.47	R S		1 7	%12.50 %87.50	
	Fructose fermentation	4	%0.24	Neg Pos		3 1	%75.00 %25.00	
	Furazolidone Susceptibility Test	1	%0.06	S		1	%100.00	
	GAS / (TSI)	363	%21.47	Neg Pos Both	Neg	310 48 5	%85.40 %13.22 %1.38	✓
	Gelatin hydrolysis (22° / 35° C)	39	%2.31	Neg Pos		3 36	%7.69 %92.31	

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→	Gentamicin	170	%10.05	S R		159 11	%93.53 %6.47	
	Glycerol fermentation	7	%0.41	Neg		7	%100.00	
	GN broth	1	%0.06	2+		1	%100.00	
→	Gram Stain	1556	%92.02	G- Cocci G+ Cocci, in Cha G- Diplococci G+ Cocci G+ Bacilli G- Coccobacilli G- Bacilli G- Cocci, in Cha G+ Coccobacilli	<b>G- Bacilli</b>	12 2 3 10 7 143 1374 2 3	%0.77 %0.13 %0.19 %0.64 %0.45 %9.19 %88.30 %0.13 %0.19	✓
	Growth at 4°C	4	%0.24	Neg		4	%100.00	
	Growth at 42°C	61	%3.61	Neg Pos	<b>Pos</b>	2 59	%3.28 %96.72	✓
	Growth at 45°C	1	%0.06	Neg		1	%100.00	
	Growth in 6% NaCl broth/agar	2	%0.12	Neg		2	%100.00	
	Growth in 6.5% NaCl broth	4	%0.24	Neg Pos		2 2	%50.00 %50.00	
	Growth in KCN	1	%0.06	Pos		1	%100.00	
	Growth in Thioglycolate (anaerobic)	1	%0.06	Pos		1	%100.00	
→	H2S / (TSI)	736	%43.52	Pos Both Neg	<b>Neg</b>	59 4 673	%8.02 %0.54 %91.44	✓
	HEA (Hektoen Enteric Agar)	6	%0.35	3+ 2+		3 3	%50.00 %50.00	
	Hemolysis ( Non )	8	%0.47	Pos Neg		3 5	%37.50 %62.50	
	Hemolysis (Alpha)	5	%0.30	Neg Pos		1 4	%20.00 %80.00	

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	Hemolysis (Beta)	95	%5.62	Both Pos Neg		1 93 1	%1.05 %97.89 %1.05	
	Hippurate hydrolysis Test	2	%0.12	Neg		2	%100.00	
	Hydrolysis of Esculin/ Bile Esculin Agar	94	%5.56	Pos Neg	<b>Neg</b>	11 83	%11.70 %88.30	✓
	Imipenem	88	%5.20	S R		63 25	%71.59 %28.41	
→	Indole ( I )	1261	%74.57	Pos Both Neg		108 10 1143	%8.56 %0.79 %90.64	
	Kanamycin	5	%0.30	R		5	%100.00	
	KOH (3%) String Test	18	%1.06	Pos	<b>Pos</b>	18	%100.00	✓
	Lactose fermentation	176	%10.41	Neg Pos		166 10	%94.32 %5.68	
	L-Arabinose fermentation	4	%0.24	Neg		4	%100.00	
→	LDC (Lysine decarboxylase)	326	%19.28	Both Pos Neg		5 144 177	%1.53 %44.17 %54.29	
→	Levofloxacin	25	%1.48	R S		1 24	%4.00 %96.00	
	LIA	423	%25.01	R/A K/A K/K H2S+ K/A H2S+ k/k	<b>k/k</b>	9 60 7 1 346	%2.13 %14.18 %1.65 %0.24 %81.80	✓
	Linezolid	1	%0.06	R		1	%100.00	
	L-Rhamnose fermentation	2	%0.12	Neg		2	%100.00	



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	MacConkey Agar	485	%28.68	3+ 2+ 1+ 1-		368 92 16 9	%75.88 %18.97 %3.30 %1.86	
	Malonate utilization	19	%1.12	Neg Pos		2 17	%10.53 %89.47	
	Maltose fermentation	10	%0.59	Pos Neg		1 9	%10.00 %90.00	
	Mannitol Salt Agar	48	%2.84	Both Pos Neg		2 18 28	%4.17 %37.50 %58.33	
	Melibiose fermentation	1	%0.06	Pos		1	%100.00	
	Meropenem	39	%2.31	R S		10 29	%25.64 %74.36	
→	Methyl red (MR)	917	%54.23	Both Neg Pos		5 788 124	%0.55 %85.93 %13.52	
	MHA (Mueller Hinton Agar)	176	%10.41	1- 1+ 3+ 2+		1 9 135 31	%0.57 %5.11 %76.70 %17.61	
→	Motility	1205	%71.26	Neg Pos Both	Pos	317 866 22	%26.31 %71.87 %1.83	✓
	Motility (25°C )	51	%3.02	Neg Both Pos		12 1 38	%23.53 %1.96 %74.51	
	MSA (Mannitol Salt Agar)	11	%0.65	1+ 1- 3+ 2+		1 8 1 1	%9.09 %72.73 %9.09 %9.09	
	myo-Inositol fermentation	2	%0.12	Pos Neg		1 1	%50.00 %50.00	
	NA (Nutrient Agar)	24	%1.42	1+ 2+ 1- 3+		3 1 1 19	%12.50 %4.17 %4.17 %79.17	

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	Nalidixic acid	58	%3.43	R S		50 8	%86.21 %13.79	
	NB (Nutrient Broth)	1	%0.06	3+		1	%100.00	
	Nitrate reduction	14	%0.83	Pos Neg		13 1	%92.86 %7.14	
	Nitrofurantoin	79	%4.67	S R		4 75	%5.06 %94.94	
	Norfloxacine	36	%2.13	S		36	%100.00	
	Novobiocin	4	%0.24	S R		2 2	%50.00 %50.00	
	Novobiocin Susceptibility Test	10	%0.59	S R		5 5	%50.00 %50.00	
	O/129 Susceptibility Test	1	%0.06	S		1	%100.00	
	ODC (Ornithine decarboxylase)	111	%6.56	Neg Pos Both		78 30 3	%70.27 %27.03 %2.70	
	O-F Test / Glucose	190	%11.24	Fermenter Oxidizer Nonoxidizer(Nonutilizer)	<b>Oxidizer</b>	20 165 5	%10.53 %86.84 %2.63	✓
	O-F Test / Lactose	47	%2.78	Nonoxidizer(Nonutilizer) Fermenter Oxidizer	<b>Nonoxidizer(Nonutilizer)</b>	26 9 12	%55.32 %19.15 %25.53	✓
	O-F Test / Maltose	23	%1.36	Fermenter Nonoxidizer(Nonutilizer) Oxidizer	<b>Nonoxidizer(Nonutilizer)</b>	4 16 3	%17.39 %69.57 %13.04	✓
	O-F Test / Mannitol	13	%0.77	Nonoxidizer(Nonutilizer) Fermenter Oxidizer		1 4 8	%7.69 %30.77 %61.54	
	O-F Test / Xylose	11	%0.65	Oxidizer Fermenter	<b>Oxidizer</b>	9 2	%81.82 %18.18	✓

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→	Ofloxacin	13	%0.77	R S		1 12	%7.69 %92.31	
	ONPG test	356	%21.05	Neg Pos Both	Neg	327 28 1	%91.85 %7.87 %0.28	✓
	Optochin Susceptibility Test	5	%0.30	S R		3 2	%60.00 %40.00	
	Other	12	%0.71	3+		12	%100.00	
	Oxacillin	6	%0.35	R		6	%100.00	
→	Oxidase Test	1221	%72.21	Neg Both Pos	Pos	38 5 1178	%3.11 %0.41 %96.48	✓
	PAD (Phenylalanine deaminase)	74	%4.38	Pos Neg		10 64	%13.51 %86.49	
	Penicillin	19	%1.12	S R		5 14	%26.32 %73.68	
→	Pigment 1	532	%31.46	Green Brown Red	Green	524 4 4	%98.50 %0.75 %0.75	✓
	Pigment 2	31	%1.83	Yellow Yellow-Green Orange-Pink		9 19 3	%29.03 %61.29 %9.68	
	Pigment 3	12	%0.71	Violet Lavender-Green Purple		3 5 4	%25.00 %41.67 %33.33	
	Piperacillin	17	%1.01	R S		2 15	%11.76 %88.24	
→	Piperacillin-tazobactam	12	%0.71	S R		11 1	%91.67 %8.33	
	Polymyxin B	6	%0.35	S R		5 1	%83.33 %16.67	
	Polymyxine B Susceptibility Test	26	%1.54	S		26	%100.00	

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	Pyocyanin	28	%1.66	Pos		28	%100.00	
	PYR Test - Pyrrolidonylarylamidase	1	%0.06	Neg		1	%100.00	
	Raffinose fermentation	2	%0.12	Neg		2	%100.00	
	Rifampin	3	%0.18	R		3	%100.00	
	Saboraoud Dextros Agar (SDA)	4	%0.24	1- 3+		3 1	%75.00 %25.00	
→	SBA (Sheep Blood Agar)	1494	%88.35	1+ 1- 3+ 2+		33 8 1281 172	%2.21 %0.54 %85.74 %11.51	
	Serogrouping or Serotyping Tests	2	%0.12	No		2	%100.00	
	SMAC (Sorbitol-MacConkey agar)	2	%0.12	3+		2	%100.00	
	SS (Salmonella-Shigella agar)	8	%0.47	3+ 2+ 1+ 1-		4 2 1 1	%50.00 %25.00 %12.50 %12.50	
	Sucrose fermentation	20	%1.18	Neg Pos		17 3	%85.00 %15.00	
	Sulfamethoxazole	8	%0.47	R		8	%100.00	
	Swarming colonies	9	%0.53	Both Neg Pos		1 2 6	%11.11 %22.22 %66.67	
	SXT Susceptibility Test	64	%3.78	S R		6 58	%9.38 %90.63	
	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	9	%0.53	1- 1+ 3+ 2+		5 2 1 1	%55.56 %22.22 %11.11 %11.11	
	TDA (Tryptophan deaminase)	8	%0.47	Neg		8	%100.00	
	Tetracycline	30	%1.77	R S		23 7	%76.67 %23.33	

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	Thioglycolate broth / Medium	26	%1.54	3+ 2+		21 5	%80.77 %19.23	
	Ticarillin-clavulanic acid	1	%0.06	R		1	%100.00	
	Tigecycline	1	%0.06	R		1	%100.00	
→	Tobramycin	32	%1.89	R S		1 31	%3.13 %96.88	
	Trimethoprim	12	%0.71	R S		10 2	%83.33 %16.67	
	Trimethoprim-sulfamethoxazole	117	%6.92	R S		107 10	%91.45 %8.55	
	TSA (Trypticase Soy Agar)	7	%0.41	3+ 2+ 1+		5 1 1	%71.43 %14.29 %14.29	
	TSB (Trypticase Soy Broth)	12	%0.71	2+ 3+		1 11	%8.33 %91.67	
→	TSI	1496	%88.47	K/A H2S+ K/A Gas- K/A Gas+ A/A Gas+ K/K A/A H2S+ A/A Gas-	K/K	17 91 13 29 1236 7 103	%1.14 %6.08 %0.87 %1.94 %82.62 %0.47 %6.89	✓
→	Urea hydrolysis / (Agar)	1188	%70.25	Neg Pos Both	Neg	518 621 49	%43.60 %52.27 %4.12	✓
	Vancomycin	8	%0.47	R S		5 3	%62.50 %37.50	
	Vancomycin MIC E test	6	%0.35	R S		4 2	%66.67 %33.33	
	Vancomycin Susceptibility Test	7	%0.41	R S		3 4	%42.86 %57.14	
→	Voges-Proskauer (VP)	762	%45.06	Both Pos Neg		6 214 542	%0.79 %28.08 %71.13	

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	Voges-Proskauer (VP) / (25°C)	41	%2.42	Neg Pos		32 9	%78.05 %21.95	
	XLD (Xylose Lysine Deoxycholate agar)	49	%2.90	2+ 3+ 1- 1+		10 28 3 8	%20.41 %57.14 %6.12 %16.33	
	Yellow Pigment	18	%1.06	Neg Pos		1 17	%5.56 %94.44	

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