

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

چاپ

دوره چهل و هفتم زمستان 1402

## M1 Results

## باکتری جدا شده از کشت ادرار

کد نمونه 1486	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
→	Serratia marcescens	272	%31.45	✓
	Enterobacter aerogenes	226	%26.13	
	Serratia spp.	74	%8.55	●
	Enterobacter spp.	61	%7.05	
	Enterobacter cloacae	41	%4.74	
	Citrobacter freundii	23	%2.66	
	Klebsiella spp.	19	%2.20	
	Klebsiella pneumoniae subsp. pneumoniae	14	%1.62	
	Citrobacter spp.	13	%1.50	
	Escherichia coli	10	%1.16	
	Not Reported	10	%1.16	
	Citrobacter diversus (koseri)	9	%1.04	
	Serratia liquefaciens	8	%0.92	●
	Klebsiella oxytoca	8	%0.92	
	Hafnia alvei	8	%0.92	
	Pseudomonas aeruginosa	6	%0.69	
	Staphylococcus saprophyticus	5	%0.58	
	Enterobacter amnigenus 1	4	%0.46	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Acinetobacter spp.	4	%0.46	
	Staphylococcus aureus	3	%0.35	
	Acinetobacter baumannii (Saccharolytic)	3	%0.35	
	Enterobacter cancerogenus (taylorae)	3	%0.35	
	Enterobacter gergoviae	3	%0.35	
	Providencia stuartii	3	%0.35	
	Salmonella spp.	3	%0.35	
	Enterococcus faecalis	2	%0.23	
	Klebsiella pneumoniae subsp. ozaenae	2	%0.23	
	Yersinia pseudotuberculosis	2	%0.23	
	Pseudomonas spp.	2	%0.23	
	Providencia spp.	2	%0.23	
	Enterococcus spp.	2	%0.23	
	Serratia ficaria	1	%0.12	●
	Proteus spp.	1	%0.12	
	Providencia rettgeri	1	%0.12	
	Aeromonas spp.	1	%0.12	
	Serratia entomophila	1	%0.12	●
	Moraganella morgani subsp. morgani	1	%0.12	
	Achromobacter spp.	1	%0.12	
	Escherichia coli, inactive	1	%0.12	
	Kingella spp	1	%0.12	
	Aeromonas hydrophila complex	1	%0.12	
	Yersinia enterocolitica	1	%0.12	
	Citrobacter amalonaticus	1	%0.12	
	Enterobacter intermedium	1	%0.12	
	Salmonella serotype Paratyphi A	1	%0.12	
	Serratia fonticola	1	%0.12	●
	Serratia odorifera 1	1	%0.12	●
	Staphylococci , Coagulase-negative (CoNS)	1	%0.12	
	Stenotrophomonas maltophilia	1	%0.12	
	Escherichia vulneris	1	%0.12	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Proteus mirabilis	1	%0.12	

## جدول شماره 2

درصد	تعداد	تشخیص های درست	درصد	تعداد	نمونه های فرستاده شده
31.81	272	تشخیص های درست		904	
10.06	86	تشخیص های نیمه درست	95.58	864	جوابهای دریافتی (تعداد موارد ثبت شده)
58.13	497	تشخیص های اشتباه	98.96	855	جوابهای دارای تشخیص
			1.16	10	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)	56	%6.47	Neg Pos	Neg	41 15	%73.21 %26.79	✓
	Adonitol fermentation	3	%0.35	Neg Pos		1 2	%33.33 %66.67	
	Amikacin	31	%3.58	R S		4 27	%12.90 %87.10	
	Amoxicillin	7	%0.81	R		7	%100.00	
	Ampicillin	24	%2.77	R S		22 2	%91.67 %8.33	
	Ampicillin Susceptibility Test	4	%0.46	R		4	%100.00	
	Ampicillin-sulbactam	1	%0.12	R		1	%100.00	
	Amygdalin	1	%0.12	Pos		1	%100.00	
	Azithromycin	9	%1.04	R S		3 6	%33.33 %66.67	
	Bacitracin 0.04 U Susceptibility Test	2	%0.23	R S		1 1	%50.00 %50.00	
	Bacitracin 10 U Susceptibility Test	2	%0.23	R		2	%100.00	

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	Bacitracin Susceptibility Test	7	%0.81	R		7	%100.00	
	BGA (Brilliant Green Agar)	19	%2.20	3+ 2+ 1- 1+		14 2 1 2	%73.68 %10.53 %5.26 %10.53	
	BHI Agar (Brain Heart Infusion Agar)	15	%1.73	3+ 1+		11 4	%73.33 %26.67	
	BSA (Bismuth Sulfite Agar)	4	%0.46	3+ 2+		3 1	%75.00 %25.00	
	CAMP Test	1	%0.12	Pos		1	%100.00	
	Carbenicillin Susceptibility Test	1	%0.12	S		1	%100.00	
	Catalase Test	225	%26.01	Neg Pos	Pos	5 220	%2.22 %97.78	✓
	Cefazolin	23	%2.66	R		23	%100.00	
	Cefepime	11	%1.27	S		11	%100.00	
	Cefixime	24	%2.77	R S		5 19	%20.83 %79.17	
	Cefotaxime	19	%2.20	S R		15 4	%78.95 %21.05	
	Cefoxitin	9	%1.04	R S		6 3	%66.67 %33.33	
	Ceftazidime	27	%3.12	R S		4 23	%14.81 %85.19	
	Ceftizoxime	6	%0.69	S		6	%100.00	
	Ceftriaxone	35	%4.05	S R		30 5	%85.71 %14.29	
	Cellobiose fermentation	1	%0.12	Pos		1	%100.00	
	Cephalexin	5	%0.58	S R		1 4	%20.00 %80.00	

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	Cephalothin	8	%0.92	R		8	%100.00	
	Cephalothin Susceptibility Test	3	%0.35	S R		1 2	%33.33 %66.67	
	CHA (Chocolate Agar)	192	%22.20	1- 1+ 3+ 2+		1 5 162 24	%0.52 %2.60 %84.38 %12.50	
	CHROMagar Orientation	1	%0.12	2+		1	%100.00	
	Ciprofloxacin	55	%6.36	S R		52 3	%94.55 %5.45	
→	Citrate (Simmons) (C)	808	%93.41	Both Neg Pos	Pos	3 29 776	%0.37 %3.59 %96.04	✓
	Clindamycin	2	%0.23	R		2	%100.00	
	Coagulase Test / Slide (clumping factor)	11	%1.27	Pos Neg		4 7	%36.36 %63.64	
	Coagulase Test / Tube	11	%1.27	Pos Neg		3 8	%27.27 %72.73	
	Colistin Susceptibility Test	1	%0.12	R		1	%100.00	
	Colony on TCBS agar	1	%0.12	Green		1	%100.00	
	Colony Size > 0.5 mm at 24hrs	4	%0.46	Pos		4	%100.00	
	D-Glucose, acid	74	%8.55	Both Pos	Pos	1 73	%1.35 %98.65	✓
	D-Glucose, gas	26	%3.01	Neg Both Pos	Neg	6 2 18	%23.08 %7.69 %69.23	✓
	D-Mannitol fermentation	30	%3.47	Neg Pos	Pos	2 28	%6.67 %93.33	✓
	D-Mannose fermentation	5	%0.58	Pos		5	%100.00	

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→	DNase (25° / 35° C)	208	%24.05	Pos Both Neg	Pos	164 3 41	%78.85 %1.44 %19.71	✓
	Doxycycline	2	%0.23	R		2	%100.00	
	D-Sorbitol fermentation	5	%0.58	Pos		5	%100.00	
	Dulcitol fermentation	1	%0.12	Neg		1	%100.00	
	D-Xylose fermentation	3	%0.35	Pos Neg		1 2	%33.33 %66.67	
→	EMB (Eosin Methylene Blue agar)	757	%87.51	1- 1+ 3+ 2+		9 13 644 91	%1.19 %1.72 %85.07 %12.02	
	Ertapenem	2	%0.23	S		2	%100.00	
	Erythromycin	4	%0.46	R		4	%100.00	
	Esculin hydrolysis	19	%2.20	Pos Neg	Pos	16 3	%84.21 %15.79	✓
	Fosfomycin	1	%0.12	S		1	%100.00	
	Fructose fermentation	1	%0.12	Pos		1	%100.00	
	Furazolidone Susceptibility Test	1	%0.12	R		1	%100.00	
	GAS / (TSI)	213	%24.62	Neg Pos Both	Neg	120 86 7	%56.34 %40.38 %3.29	✓
	Gelatin hydrolysis (22° / 35° C)	33	%3.82	Neg Pos Both	Pos	9 23 1	%27.27 %69.70 %3.03	✓
	Gentamicin	49	%5.66	S R		48 1	%97.96 %2.04	

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→	Gram Stain	813	%93.99	G- Coccobacilli G- Bacilli G- Cocci, in Cha G+ Cocci, in Clu G+ Bacilli G- Cocci G+ Cocci, in Cha G- Diplococci G+ Cocci G+, in Cluster	<b>G- Bacilli</b>	121 656 4 1 4 11 1 5 9 1	%14.88 %80.69 %0.49 %0.12 %0.49 %1.35 %0.12 %0.62 %1.11 %0.12	✓
	Growth at 10°C	1	%0.12	Pos		1	%100.00	
	Growth at 42°C	1	%0.12	Pos		1	%100.00	
	Growth in 6% NaCl broth/agar	2	%0.23	Pos Neg		1 1	%50.00 %50.00	
	Growth in 6.5% NaCl broth	9	%1.04	Neg Pos		3 6	%33.33 %66.67	
	Growth in KCN	2	%0.23	Pos		2	%100.00	
	H2S / (TSI)	435	%50.29	Neg Pos	<b>Neg</b>	419 16	%96.32 %3.68	✓
	HEA (Hektoen Enteric Agar)	4	%0.46	3+ 2+		3 1	%75.00 %25.00	
	Hemolysis ( Non )	11	%1.27	Pos Neg		2 9	%18.18 %81.82	
	Hemolysis (Alpha)	3	%0.35	Neg Pos		1 2	%33.33 %66.67	
	Hemolysis (Beta)	10	%1.16	Pos Neg		7 3	%70.00 %30.00	
	Hippurate hydrolysis Test	1	%0.12	Neg		1	%100.00	
→	Hydrolysis of Esculin/ Bile Esculin Agar	56	%6.47	Pos Neg	<b>Pos</b>	52 4	%92.86 %7.14	✓
	Imipenem	21	%2.43	S R		18 3	%85.71 %14.29	

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→	Indole ( I )	776	%89.71	Both Pos Neg	Neg	1 30 745	%0.13 %3.87 %96.01	✓
	Kanamycin	1	%0.12	R		1	%100.00	
	KOH (3%) String Test	15	%1.73	Pos	Pos	15	%100.00	✓
	Lactose fermentation	135	%15.61	Neg Pos Both	Neg	61 69 5	%45.19 %51.11 %3.70	✓
	L-Arabinose fermentation	17	%1.97	Neg Pos		10 7	%58.82 %41.18	
→	LDC (Lysine decarboxylase)	287	%33.18	Pos Neg	Pos	251 36	%87.46 %12.54	✓
	Levofloxacin	10	%1.16	S		10	%100.00	
	LIA	249	%28.79	R/A K/A K/K H2S+ K/A H2S+ k/k	k/k	2 41 1 1 204	%0.80 %16.47 %0.40 %0.40 %81.93	✓
	L-Rhamnose fermentation	5	%0.58	Neg Pos		2 3	%40.00 %60.00	
	MacConkey Agar	247	%28.55	3+ 2+ 1+		199 45 3	%80.57 %18.22 %1.21	
	Malonate utilization	22	%2.54	Neg Pos	Neg	9 13	%40.91 %59.09	✓
	Maltose fermentation	7	%0.81	Pos		7	%100.00	
	Mannitol Salt Agar	48	%5.55	Pos Neg		41 7	%85.42 %14.58	
	Melibiose fermentation	3	%0.35	Pos		3	%100.00	
	Meropenem	10	%1.16	R S		1 9	%10.00 %90.00	



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	Methicillin	1	%0.12	R		1	%100.00	
→	Methyl red (MR)	685	%79.19	Both Neg Pos	Neg	10 557 118	%1.46 %81.31 %17.23	✓
	MHA (Mueller Hinton Agar)	58	%6.71	3+ 2+		49 9	%84.48 %15.52	
→	Motility	720	%83.24	Neg Pos Both	Pos	71 638 11	%9.86 %88.61 %1.53	✓
	Motility (25°C)	26	%3.01	Neg Pos		6 20	%23.08 %76.92	
	MSA (Mannitol Salt Agar)	6	%0.69	1+ 1- 3+		2 1 3	%33.33 %16.67 %50.00	
	myo-Inositol fermentation	4	%0.46	Pos		4	%100.00	
	N2 gas from Nitrate	1	%0.12	Pos		1	%100.00	
	NA (Nutrient Agar)	13	%1.50	1+ 2+ 3+		1 1 11	%7.69 %7.69 %84.62	
	Nalidixic acid	34	%3.93	R S		6 28	%17.65 %82.35	
	NB (Nutrient Broth)	1	%0.12	2+		1	%100.00	
	Nitrate reduction	5	%0.58	Pos		5	%100.00	
	Nitrofurantoin	53	%6.13	S R		16 37	%30.19 %69.81	
	Norfloxacin	11	%1.27	S		11	%100.00	
	Novobiocin	5	%0.58	S R		1 4	%20.00 %80.00	
	Novobiocin Susceptibility Test	7	%0.81	R		7	%100.00	

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	O/129 Susceptibility Test	1	%0.12	S		1	%100.00	
	ODC (Ornithine decarboxylase)	100	%11.56	Neg Pos	Pos	13 87	%13.00 %87.00	✓
	O-F Test / Glucose	28	%3.24	Fermenter Oxidizer		19 9	%67.86 %32.14	
	O-F Test / Lactose	11	%1.27	Nonoxidizer(Nonutilizer) Fermenter Oxidizer		3 6 2	%27.27 %54.55 %18.18	
	O-F Test / Maltose	4	%0.46	Fermenter Oxidizer		3 1	%75.00 %25.00	
	O-F Test / Mannitol	6	%0.69	Fermenter Oxidizer		4 2	%66.67 %33.33	
	O-F Test / Xylose	1	%0.12	Fermenter		1	%100.00	
	Ofloxacin	8	%0.92	S		8	%100.00	
	ONPG test	278	%32.14	Neg Pos Both	Pos	17 260 1	%6.12 %93.53 %0.36	✓
	Optochin Susceptibility Test	6	%0.69	R		6	%100.00	
	Other	7	%0.81	2+ 3+		1 6	%14.29 %85.71	
	Oxacillin	2	%0.23	R		2	%100.00	
	Oxidase Test	362	%41.85	Neg Both Pos	Neg	332 1 29	%91.71 %0.28 %8.01	✓
	PAD (Phenylalanine deaminase)	88	%10.17	Pos Neg	Neg	1 87	%1.14 %98.86	✓
	Penicillin	1	%0.12	R		1	%100.00	

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	Pigment 1	35	%4.05	Green Brown Red		6 1 28	%17.14 %2.86 %80.00	
	Pigment 2	17	%1.97	Yellow Yellow-Green Orange-Pink		5 1 11	%29.41 %5.88 %64.71	
	Pigment 3	5	%0.58	Violet Purple		3 2	%60.00 %40.00	
	Piperacillin	3	%0.35	R S		1 2	%33.33 %66.67	
	Polymyxin B	2	%0.23	R		2	%100.00	
	Polymyxine B Susceptibility Test	4	%0.46	S R		1 3	%25.00 %75.00	
	Raffinose fermentation	11	%1.27	Neg Pos		8 3	%72.73 %27.27	
	Rifampin	2	%0.23	S R		1 1	%50.00 %50.00	
	Saboraoud Dextros Agar (SDA)	2	%0.23	1- 3+		1 1	%50.00 %50.00	
	Salicin fermentation	1	%0.12	Pos		1	%100.00	
→	SBA (Sheep Blood Agar)	784	%90.64	1+ 1- 3+ 2+		12 4 695 73	%1.53 %0.51 %88.65 %9.31	
	Serogrouping or Serotyping Tests	1	%0.12	No		1	%100.00	
	SF (Selenite-F broth)	1	%0.12	3+		1	%100.00	
	SMAC (Sorbitol-MacConkey agar)	1	%0.12	3+		1	%100.00	
	SS (Salmonella-Shigella agar)	2	%0.23	3+ 1-		1 1	%50.00 %50.00	

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	Sucrose fermentation	30	%3.47	Neg Pos Both	Pos	3 26 1	%10.00 %86.67 %3.33	✓
	Swarming colonies	8	%0.92	Neg Pos		7 1	%87.50 %12.50	
	SXT Susceptibility Test	13	%1.50	S R		9 4	%69.23 %30.77	
	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	2	%0.23	1- 2+		1 1	%50.00 %50.00	
	TDA (Tryptophan deaminase)	7	%0.81	Neg		7	%100.00	
	Tetracycline	6	%0.69	R S		1 5	%16.67 %83.33	
	Thioglycolate broth / Medium	9	%1.04	3+		9	%100.00	
	Tigecycline	1	%0.12	S		1	%100.00	
	Tobramycin	5	%0.58	S		5	%100.00	
	Trehalose fermentation	1	%0.12	Pos		1	%100.00	
	Trimethoprim	1	%0.12	S		1	%100.00	
	Trimethoprim-sulfamethoxazole	50	%5.78	R S		3 47	%6.00 %94.00	
	TSA (Trypticase Soy Agar)	9	%1.04	3+ 2+		8 1	%88.89 %11.11	
	TSB (Trypticase Soy Broth)	5	%0.58	3+		5	%100.00	
→	TSI	795	%91.91	K/A H2S+ K/A Gas- K/A Gas+ A/A Gas+ K/K A/A H2S+ A/A Gas-	A/A Gas-	10 229 109 186 17 8 236	%1.26 %28.81 %13.71 %23.40 %2.14 %1.01 %29.69	✓

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→	Urea hydrolysis / (Agar)	729	%84.28	Neg Pos Both	Neg	610 84 35	%83.68 %11.52 %4.80	✓
	Vancomycin	4	%0.46	R		4	%100.00	
	Vancomycin MIC E test	1	%0.12	R		1	%100.00	
	Vancomycin Susceptibility Test	5	%0.58	R S		4 1	%80.00 %20.00	
→	Voges-Proskauer (VP)	618	%71.45	Both Pos Neg	Pos	6 502 110	%0.97 %81.23 %17.80	✓
	Voges-Proskauer (VP) / (25°C)	32	%3.70	Neg Pos		9 23	%28.13 %71.88	
	XLD (Xylose Lysine Deoxycholate agar)	33	%3.82	2+ 3+ 1+		10 20 3	%30.30 %60.61 %9.09	

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