

برگشت (/IACLD/Panel/Labs/Answers/29630)

دوره چهل و دوم تابستان 1401

M1 Results

تشخیص میکروارگانسیم

کد نمونه 1602	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
→	Aeromonas hydrophila complex	138	%16.18	✓
	Escherichia coli	118	%13.83	
	Shigella spp.	105	%12.31	
	Shigella flexneri (serogroup B)	81	%9.50	
	Aeromonas spp.	80	%9.38	●
	Shigella sonnei (serogroup D)	31	%3.63	
	Not Reported	24	%2.81	
	Salmonella spp.	18	%2.11	
	Plesiomonas shigelloides	18	%2.11	
	Hafnia alvei	18	%2.11	
	Vibrio spp	18	%2.11	
	Yersinia enterocolitica	15	%1.76	
	Salmonella serotype Paratyphi A	13	%1.52	
	Vibrio cholerae	12	%1.41	
	Shigella dysenteriae (serogroup A)	11	%1.29	
	Providencia rustigianii	8	%0.94	
	Staphylococcus aureus	8	%0.94	
	Salmonella serotype Typhi	8	%0.94	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Escherichia spp.	7	%0.82	
	Salmonella, Nontyphoidal serogroup B	7	%0.82	
	Escherichia coli, inactive	7	%0.82	
	Citrobacter spp.	6	%0.70	
	Providencia spp.	5	%0.59	
	Yersinia spp.	5	%0.59	
	Citrobacter diversus (koseri)	4	%0.47	
	Escherichia coli, Enteropathogenic	4	%0.47	
	Staphylococcus saprophyticus	4	%0.47	
	Aeromonas caviae complex	4	%0.47	●
	Staphylococci , Coagulase-negative (CoNS)	4	%0.47	
	Enterobacter spp.	3	%0.35	
	Moraxella spp.	3	%0.35	
	Aeromonas schubertii	3	%0.35	●
	Moraganella morgani subsp. morgani	3	%0.35	
	Pantoea (Enterobacter) agglomerans	3	%0.35	
	Aerococcus spp.	3	%0.35	
	Vibrio fluvialis	3	%0.35	
	Listeria spp.	3	%0.35	
	Serratia marcescens	2	%0.23	
	Enterobacter cloacae	2	%0.23	
	Escherichia fergusonii	2	%0.23	
	Pseudomonas aeruginosa	2	%0.23	
	Pseudomonas spp.	2	%0.23	
	Staphylococci , Coagulase-positive	2	%0.23	
	Serratia fonticola	2	%0.23	
	Salmonella spp. , Nontyphoidal	2	%0.23	
	Staphylococcus epidermidis	2	%0.23	
	Acinetobacter spp.	2	%0.23	
	Edwardsiella tarda	2	%0.23	
	Enterobacter aerogenes	1	%0.12	
	Enterococcus spp.	1	%0.12	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	NFGNB - Nonfermenting Gram-Negative Bacilli	1	%0.12	
	Proteus vulgaris	1	%0.12	
	Yersinia intermedia	1	%0.12	
	Aeromonas veronii biovar veronii	1	%0.12	●
	Corynebacterium spp.	1	%0.12	
	Klebsiella oxytoca	1	%0.12	
	No enteric pathogens isolated	1	%0.12	
	Bacillus spp.	1	%0.12	
	Proteus mirabilis	1	%0.12	
	Yersinia pseudotuberculosis	1	%0.12	
	Citrobacter freundii	1	%0.12	
	Edwardsiella spp	1	%0.12	
	Klebsiella pneumoniae subsp. ozaenae	1	%0.12	
	Salmonella serotype Pullorum	1	%0.12	
	Serratia spp.	1	%0.12	
	Streptococcus spp.	1	%0.12	
	Micrococcus spp.	1	%0.12	
	Citrobacter braakii	1	%0.12	
	Shewanella spp.	1	%0.12	
	Shigella boydii (serogroup C)	1	%0.12	
	Enterococcus faecalis	1	%0.12	
	Citrobacter farmeri	1	%0.12	
	Enterobacter gergoviae	1	%0.12	
	Salmonella serotype Choleraesuis	1	%0.12	

جدول شماره 2

درصد	تعداد	تشخیص	درصد	تعداد	نمونه
16.65	138	تشخیص های درست	926	926	نمونه های فرستاده شده
10.62	88	تشخیص های نیمه درست	92.12	853	(جوابهای دریافتی) تعداد موارد ثبت شده
72.74	603	تشخیص های اشتباه	97.19	829	جوابهای دارای تشخیص
			2.81	24	جوابهای بدون تشخیص

باسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	ADH (Arginine dihydrolyse)	32	%3.75	Neg Pos	Pos	2 30	%6.25 %93.75	✓
	Adonitol fermentation	9	%1.06	Neg Pos		8 1	%88.89 %11.11	
	Amikacin	47	%5.51	R S		2 45	%4.26 %95.74	
	Amoxicillin	18	%2.11	S R		4 14	%22.22 %77.78	
	Amoxicillin-clavulanic acid	5	%0.59	R S		3 2	%60.00 %40.00	
	Ampicillin	44	%5.16	S R	R	9 35	%20.45 %79.55	✓
	Ampicillin Susceptibility Test	14	%1.64	R		14	%100.00	
	Ampicillin-sulbactam	1	%0.12	R		1	%100.00	
	Amygdalin	1	%0.12	Neg		1	%100.00	
	Azithromycin	11	%1.29	R S		3 8	%27.27 %72.73	
	Bacitracin 0.04 U Susceptibility Test	4	%0.47	R		4	%100.00	
	Bacitracin Susceptibility Test	8	%0.94	R		8	%100.00	
	BGA (Brilliant Green Agar)	24	%2.81	3+ 2+ 1-		19 3 2	%79.17 %12.50 %8.33	
	BHI Agar (Brain Heart Infusion Agar)	20	%2.34	3+ 1+ 2+		17 1 2	%85.00 %5.00 %10.00	
	BSA (Bismuth Sulfite Agar)	4	%0.47	3+		4	%100.00	
	CAMP Test	1	%0.12	Pos		1	%100.00	

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→	Catalase Test	264	%30.95	Neg Both Pos	Pos	24 1 239	%9.09 %0.38 %90.53	✓
	Cefazolin	22	%2.58	R S		15 7	%68.18 %31.82	
	Cefepime	13	%1.52	S		13	%100.00	
	Cefixime	45	%5.28	S		45	%100.00	
	Cefotaxime	32	%3.75	S R		30 2	%93.75 %6.25	
	Cefoxitin	8	%0.94	R S		1 7	%12.50 %87.50	
	Cefpodoxime	1	%0.12	S		1	%100.00	
	Ceftazidime	18	%2.11	S R		17 1	%94.44 %5.56	
	Ceftizoxime	18	%2.11	S		18	%100.00	
	Ceftriaxone	38	%4.45	S R		36 2	%94.74 %5.26	
	Cellobiose fermentation	1	%0.12	Neg		1	%100.00	
	Cephalexin	15	%1.76	R S		14 1	%93.33 %6.67	
	Cephalothin	11	%1.29	R S	R	7 4	%63.64 %36.36	✓
	Cephalothin Susceptibility Test	3	%0.35	R S		2 1	%66.67 %33.33	
	CHA (Chocolate Agar)	105	%12.31	1- 1+ 3+ 2+		1 5 89 10	%0.95 %4.76 %84.76 %9.52	
	Chloramphenicol	11	%1.29	R S		1 10	%9.09 %90.91	

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	Ciprofloxacin	87	%10.20	S R		86 1	%98.85 %1.15	
→	Citrate (Simmons) (C)	725	%84.99	Both Neg Pos	Neg	16 616 93	%2.21 %84.97 %12.83	✓
	Clindamycin	6	%0.70	R		6	%100.00	
	Cloxacillin	1	%0.12	S		1	%100.00	
	Coagulase Test / Slide (clumping factor)	14	%1.64	Neg Pos		10 4	%71.43 %28.57	
	Coagulase Test / Tube	22	%2.58	Neg Pos		16 6	%72.73 %27.27	
	Colistin	1	%0.12	S	S	1	%100.00	✓
	Colony on TCBS agar	31	%3.63	Yellow Green	Green	24 7	%77.42 %22.58	✓
	Colony Size > 0.5 mm at 24hrs	1	%0.12	Neg		1	%100.00	
	D-Glucose, acid	50	%5.86	Neg Pos	Pos	1 49	%2.00 %98.00	✓
	D-Glucose, gas	35	%4.10	Neg Pos	Pos	9 26	%25.71 %74.29	✓
	D-Mannitol fermentation	27	%3.17	Neg Pos	Pos	7 20	%25.93 %74.07	✓
	D-Mannose fermentation	3	%0.35	Pos		3	%100.00	
→	DNase (25° / 35° C)	64	%7.50	Pos Neg	Pos	53 11	%82.81 %17.19	✓
	Doxycycline	3	%0.35	S		3	%100.00	
	D-Sorbitol fermentation	4	%0.47	Neg Pos		3 1	%75.00 %25.00	

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	Dulcitol fermentation	1	%0.12	Neg		1	%100.00	
	D-Xylose fermentation	5	%0.59	Neg		5	%100.00	
→	EMB (Eosin Methylene Blue agar)	688	%80.66	1- 1+ 3+ 2+		68 150 313 157	%9.88 %21.80 %45.49 %22.82	
	Erythromycin	9	%1.06	S R		2 7	%22.22 %77.78	
	Esculin hydrolysis	45	%5.28	Pos Neg	Pos	43 2	%95.56 %4.44	✓
	Fosfomycin	1	%0.12	S		1	%100.00	
	GAS / (TSI)	248	%29.07	Both Neg Pos	Pos	5 151 92	%2.02 %60.89 %37.10	✓
	Gelatin hydrolysis (22° / 35° C)	16	%1.88	Pos Neg		13 3	%81.25 %18.75	
	Gentamicin	74	%8.68	S R		72 2	%97.30 %2.70	
	Glycerol fermentation	1	%0.12	Neg		1	%100.00	
	GN broth	17	%1.99	1+ 2+ 3+		1 6 10	%5.88 %35.29 %58.82	
→	Gram Stain	782	%91.68	G- Coccobacilli G+ Diplococci G- Bacilli G- Cocci, in Cha G+ Coccobacilli G+ Cocci, in Clu G- Cocci G- Diplococci G+ Cocci G+, in Cluster G+ Bacilli	G- Bacilli	91 4 648 1 1 1 5 3 18 1 9	%11.64 %0.51 %82.86 %0.13 %0.13 %0.13 %0.64 %0.38 %2.30 %0.13 %1.15	✓
	Growth at 42°C	1	%0.12	Pos		1	%100.00	

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	Growth in 0% NaCl broth/agar	5	%0.59	Neg Pos		1 4	%20.00 %80.00	
	Growth in 1% NaCl broth/agar	3	%0.35	Pos		3	%100.00	
	Growth in 6% NaCl broth/agar	7	%0.82	Pos Neg		1 6	%14.29 %85.71	
	Growth in 6.5% NaCl broth	74	%8.68	Both Neg Pos	Neg	1 59 14	%1.35 %79.73 %18.92	✓
→	H2S / (TSI)	442	%51.82	Pos Both Neg	Neg	30 1 411	%6.79 %0.23 %92.99	✓
	HEA (Hektoen Enteric Agar)	76	%8.91	3+ 2+ 1+ 1-		59 11 4 2	%77.63 %14.47 %5.26 %2.63	
	Hemolysis (Non)	7	%0.82	Neg Pos		1 6	%14.29 %85.71	
	Hemolysis (Alpha)	8	%0.94	Pos		8	%100.00	
	Hemolysis (Beta)	80	%9.38	Pos Neg	Pos	79 1	%98.75 %1.25	✓
→	Hydrolysis of Esculin/ Bile Esculin Agar	86	%10.08	Neg Pos	Pos	9 77	%10.47 %89.53	✓
	Imipenem	24	%2.81	S R		22 2	%91.67 %8.33	
→	Indole (I)	717	%84.06	Pos Both Neg	Pos	351 44 322	%48.95 %6.14 %44.91	✓
	Kanamycin	3	%0.35	S		3	%100.00	
	KOH (3%) String Test	11	%1.29	Neg Pos		1 10	%9.09 %90.91	

باسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
➔	Lactose fermentation	115	%13.48	Neg Pos Both		84 30 1	%73.04 %26.09 %0.87	
	L-Arabinose fermentation	7	%0.82	Pos	Pos	7	%100.00	✓
	LDC (Lysine decarboxylase)	201	%23.56	Both Pos Neg	Pos	3 88 110	%1.49 %43.78 %54.73	✓
	Levofloxacin	6	%0.70	S		6	%100.00	
	LIA	303	%35.52	R/A K/A K/K H2S+ K/A H2S+ k/k	k/k	7 186 3 4 103	%2.31 %61.39 %0.99 %1.32 %33.99	✓
	MacConkey Agar	330	%38.69	3+ 2+ 1- 1+		254 52 1 23	%76.97 %15.76 %0.30 %6.97	
	Malonate utilization	12	%1.41	Neg Pos		11 1	%91.67 %8.33	
	Maltose fermentation	6	%0.70	Pos Neg		4 2	%66.67 %33.33	
	Mannitol Salt Agar	62	%7.27	Both Pos Neg		1 28 33	%1.61 %45.16 %53.23	
	Meropenem	9	%1.06	R S		3 6	%33.33 %66.67	
➔	Methyl red (MR)	612	%71.75	Both Neg Pos	Pos	10 162 440	%1.63 %26.47 %71.90	✓
	MHA (Mueller Hinton Agar)	32	%3.75	1+ 3+ 2+		1 23 8	%3.13 %71.88 %25.00	
➔	Motility	651	%76.32	Neg Pos Both	Pos	205 428 18	%31.49 %65.75 %2.76	✓

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	Motility (25°C)	31	%3.63	Neg Pos		13 18	%41.94 %58.06	
	MSA (Mannitol Salt Agar)	6	%0.70	1+ 1- 3+ 2+		1 3 1 1	%16.67 %50.00 %16.67 %16.67	
	myo-Inositol fermentation	2	%0.23	Neg		2	%100.00	
	N2 gas from Nitrate	1	%0.12	Pos		1	%100.00	
	NA (Nutrient Agar)	6	%0.70	1+ 2+ 3+		1 1 4	%16.67 %16.67 %66.67	
	Nalidixic acid	49	%5.74	R S		2 47	%4.08 %95.92	
	Nitrofurantoin	73	%8.56	S R		71 2	%97.26 %2.74	
	Norfloxacin	11	%1.29	S		11	%100.00	
	Novobiocin	13	%1.52	S R		3 10	%23.08 %76.92	
	Novobiocin Susceptibility Test	12	%1.41	S R		1 11	%8.33 %91.67	
	O/129 Susceptibility Test	2	%0.23	R	R	2	%100.00	✓
	ODC (Ornithine decarboxylase)	72	%8.44	Neg Pos	Neg	52 20	%72.22 %27.78	✓
	O-F Test / Glucose	28	%3.28	Fermenter Oxidizer Nonoxidizer(Nonutilizer)		23 4 1	%82.14 %14.29 %3.57	
	O-F Test / Lactose	6	%0.70	Nonoxidizer(Nonutilizer) Fermenter		1 5	%16.67 %83.33	
	O-F Test / Maltose	2	%0.23	Fermenter		2	%100.00	

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	O-F Test / Mannitol	5	%0.59	Fermenter Nonoxidizer(Nonutilizer)		4 1	%80.00 %20.00	
	O-F Test / Xylose	2	%0.23	Fermenter		2	%100.00	
	Ofloxacin	8	%0.94	S		8	%100.00	
	ONPG test	269	%31.54	Neg Pos Both	Pos	65 198 6	%24.16 %73.61 %2.23	✓
	Optochin Susceptibility Test	5	%0.59	R		5	%100.00	
	Other	9	%1.06	2+ 3+		1 8	%11.11 %88.89	
	Oxacillin	1	%0.12	R		1	%100.00	
➔	Oxidase Test	389	%45.60	Neg Both Pos	Pos	107 1 281	%27.51 %0.26 %72.24	✓
	PAD (Phenylalanine deaminase)	69	%8.09	Pos Neg Both		2 65 2	%2.90 %94.20 %2.90	
	Penicillin	11	%1.29	R		11	%100.00	
	Pigment 1	30	%3.52	Green Red Brown		16 11 3	%53.33 %36.67 %10.00	
	Pigment 2	26	%3.05	Yellow Yellow-Green Orange-Pink		17 3 6	%65.38 %11.54 %23.08	
	Pigment 3	4	%0.47	Violet Lavender-Green Purple		1 2 1	%25.00 %50.00 %25.00	
	Piperacillin	4	%0.47	S		4	%100.00	
	Piperacillin-tazobactam	3	%0.35	S		3	%100.00	
	Polymyxin B	1	%0.12	S		1	%100.00	

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	Polymyxine B Susceptibility Test	1	%0.12	S		1	%100.00	
	Raffinose fermentation	7	%0.82	Pos Neg		5 2	%71.43 %28.57	
→	SBA (Sheep Blood Agar)	635	%74.44	1- 1+ 2+ 3+		4 17 89 525	%0.63 %2.68 %14.02 %82.68	
	Serogrouping or Serotyping Tests	13	%1.52	Yes No		9 4	%69.23 %30.77	
	SF (Selenite-F broth)	38	%4.45	2+ 3+ 1+ 1-		8 24 3 3	%21.05 %63.16 %7.89 %7.89	
	SMAC (Sorbitol-MacConkey agar)	7	%0.82	1- 2+ 3+		1 1 5	%14.29 %14.29 %71.43	
	SS (Salmonella-Shigella agar)	124	%14.54	3+ 2+ 1- 1+		73 41 2 8	%58.87 %33.06 %1.61 %6.45	
	String Test (sodium deoxycholate)	8	%0.94	Neg Pos	Neg	7 1	%87.50 %12.50	✓
→	Sucrose fermentation	37	%4.34	Neg Pos	Pos	9 28	%24.32 %75.68	✓
	Sulfamethoxazole	5	%0.59	S		5	%100.00	
	Swarming colonies	4	%0.47	Neg		4	%100.00	
	SXT Susceptibility Test	24	%2.81	S R		23 1	%95.83 %4.17	
	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	118	%13.83	1- 1+ 3+ 2+		52 20 33 13	%44.07 %16.95 %27.97 %11.02	
	TDA (Tryptophan deaminase)	6	%0.70	Neg		6	%100.00	

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	Tetracycline	16	%1.88	S		16	%100.00	
	Thioglycolate broth / Medium	4	%0.47	3+ 2+		3 1	%75.00 %25.00	
	Tobramycin	4	%0.47	S		4	%100.00	
	Trehalose fermentation	4	%0.47	Pos		4	%100.00	
	Trimethoprim	4	%0.47	S		4	%100.00	
	Trimethoprim-sulfamethoxazole	67	%7.85	R S		3 64	%4.48 %95.52	
	TSA (Trypticase Soy Agar)	7	%0.82	3+ 2+ 1+		4 1 2	%57.14 %14.29 %28.57	
	TSB (Trypticase Soy Broth)	8	%0.94	2+ 3+ 1+		1 5 2	%12.50 %62.50 %25.00	
→	TSI	751	%88.04	A/A Gas- A/A H2S+ A/A Gas+ K/K K/A H2S+ K/A G+/H2S+ K/A Gas- K/A Gas+	A/A Gas+	215 15 124 9 18 8 270 92	%28.63 %2.00 %16.51 %1.20 %2.40 %1.07 %35.95 %12.25	✓
→	Urea hydrolysis / (Agar)	635	%74.44	Pos Both Neg	Neg	31 12 592	%4.88 %1.89 %93.23	✓
	Vancomycin	7	%0.82	R		7	%100.00	
	Vancomycin MIC E test	4	%0.47	R		4	%100.00	
	Vancomycin Susceptibility Test	4	%0.47	R S		3 1	%75.00 %25.00	
→	Voges-Proskauer (VP)	525	%61.55	Both Pos Neg	Pos	10 139 376	%1.90 %26.48 %71.62	✓

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	Voges-Proskauer (VP) / (25°C)	38	%4.45	Both Neg Pos		1 23 14	%2.63 %60.53 %36.84	
→	XLD (Xylose Lysine Deoxycholate agar)	515	%60.38	2+ 3+ 1- 1+		105 371 12 27	%20.39 %72.04 %2.33 %5.24	
	Yellow Pigment	2	%0.23	Neg Pos		1 1	%50.00 %50.00	

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