

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

دوره چهل و دوم تابستان 1401

M1 Results

تشخیص میکروارگانیزم مربوط به M2

کد نمونه 2232	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
	Salmonella spp.	640	%37.49	●
➔	Salmonella, Nontyphoidal serogroup B	494	%28.94	✓
	Salmonella serotype Typhi	176	%10.31	●
	Salmonella spp. , Nontyphoidal	124	%7.26	●
	Salmonella serotype Paratyphi A	53	%3.10	●
	Citrobacter freundii	30	%1.76	
	Not Reported	27	%1.58	
	Salmonella, Nontyphoidal serogroup C	25	%1.46	●
	Shigella spp.	20	%1.17	
	Salmonella serotype Choleraesuis	17	%1.00	●
	Citrobacter spp.	14	%0.82	
	Proteus mirabilis	11	%0.64	
	Escherichia coli	9	%0.53	
	Shigella flexneri (serogroup B)	9	%0.53	
	Aeromonas hydrophila complex	5	%0.29	
	Aeromonas spp.	5	%0.29	
	Shigella sonnei (serogroup D)	4	%0.23	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Salmonella, Nontyphoidal serogroup D	4	%0.23	●
	Shigella dysenteriae (serogroup A)	4	%0.23	
	Salmonella serotype Gallinarum	3	%0.18	●
	Proteus spp.	3	%0.18	
	Klebsiella pneumoniae subsp. ozaenae	3	%0.18	
	Pseudomonas spp.	2	%0.12	
	Enterobacter aerogenes	2	%0.12	
	Hafnia alvei	2	%0.12	
	Klebsiella spp.	2	%0.12	
	Proteus vulgaris	2	%0.12	
	Shigella boydii (serogroup C)	2	%0.12	
	Alcaligenes faecalis	1	%0.06	
	Neisseria meningitidis	1	%0.06	
	Aerococcus spp.	1	%0.06	
	Bacillus spp.	1	%0.06	
	Citrobacter amalonaticus	1	%0.06	
	Vibrio spp	1	%0.06	
	Staphylococcus aureus	1	%0.06	
	Enterobacter cloacae	1	%0.06	
	Acinetobacter spp.	1	%0.06	
	Escherichia coli, inactive	1	%0.06	
	Acinetobacter haemolyticus (Saccharolytic)	1	%0.06	
	Salmonella serotype Pullorum	1	%0.06	●
	Staphylococcus saprophyticus	1	%0.06	
	Vibrio cholerae	1	%0.06	
	Klebsiella oxytoca	1	%0.06	

جدول شماره 2

درصد	تعداد	تشخیص	درصد	تعداد	نمونه
29.40	494	تشخیص های درست		1830	نمونه های فرستاده شده
62.08	1043	تشخیص های نیمه درست	93.28	1707	(جوابهای دریافتی) تعداد موارد ثبت شده
8.51	143	تشخیص های اشتباه	98.42	1680	جوابهای دارای تشخیص

درصد	تعداد	درصد	تعداد	
		1.58	27	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)	65	%3.81	Neg Both Pos	Neg	9 1 55	%13.85 %1.54 %84.62	✓
	Adonitol fermentation	14	%0.82	Neg Pos		12 2	%85.71 %14.29	
	Amikacin	86	%5.04	R S		7 79	%8.14 %91.86	
	Amoxicillin	27	%1.58	S R		23 4	%85.19 %14.81	
	Amoxicillin-clavulanic acid	4	%0.23	S		4	%100.00	
	Ampicillin	88	%5.16	S R		76 12	%86.36 %13.64	
	Ampicillin Susceptibility Test	14	%0.82	R S		4 10	%28.57 %71.43	
	Ampicillin-sulbactam	4	%0.23	S		4	%100.00	
	Amygdalin	2	%0.12	Neg		2	%100.00	
	Azithromycin	25	%1.46	R S		4 21	%16.00 %84.00	
	Bacitracin 0.04 U Susceptibility Test	5	%0.29	R		5	%100.00	
	Bacitracin 10 U Susceptibility Test	2	%0.12	R		2	%100.00	
	Bacitracin Susceptibility Test	4	%0.23	R		4	%100.00	
	BGA (Brilliant Green Agar)	48	%2.81	3+ 2+ 1+		39 5 4	%81.25 %10.42 %8.33	

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	BHI Agar (Brain Heart Infusion Agar)	34	%1.99	3+ 1+ 2+		24 5 5	%70.59 %14.71 %14.71	
	BSA (Bismuth Sulfite Agar)	9	%0.53	3+		9	%100.00	
	CAMP Test	3	%0.18	Pos		3	%100.00	
	Carbenicillin	1	%0.06	R		1	%100.00	
	Carbenicillin Susceptibility Test	1	%0.06	S		1	%100.00	
	Catalase Test	295	%17.28	Both Neg Pos	Pos	4 58 233	%1.36 %19.66 %78.98	✓
	Cefazolin	35	%2.05	R S		8 27	%22.86 %77.14	
	Cefepime	26	%1.52	R S		1 25	%3.85 %96.15	
	Cefixime	84	%4.92	R S		6 78	%7.14 %92.86	
	Cefotaxime	50	%2.93	S R		46 4	%92.00 %8.00	
	Cefoxitin	17	%1.00	R S		1 16	%5.88 %94.12	
	Cefpodoxime	1	%0.06	S		1	%100.00	
	Ceftazidime	57	%3.34	S R		49 8	%85.96 %14.04	
	Ceftizoxime	22	%1.29	S		22	%100.00	
	Ceftriaxone	91	%5.33	S R		86 5	%94.51 %5.49	
	Cellobiose fermentation	1	%0.06	Neg		1	%100.00	
	Cephalexin	22	%1.29	R S		3 19	%13.64 %86.36	

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	Cephalothin	14	%0.82	R S		1 13	%7.14 %92.86	
	Cephalothin Susceptibility Test	5	%0.29	R S		3 2	%60.00 %40.00	
	CHA (Chocolate Agar)	193	%11.31	1- 1+ 3+ 2+		1 4 171 17	%0.52 %2.07 %88.60 %8.81	
	Chloramphenicol	23	%1.35	S		23	%100.00	
	CHROMagar Orientation	1	%0.06	2+		1	%100.00	
	Ciprofloxacin	169	%9.90	S R		163 6	%96.45 %3.55	
→	Citrate (Simmons) (C)	1566	%91.74	Both Neg Pos	Pos	22 196 1348	%1.40 %12.52 %86.08	✓
	Clarithromycin	1	%0.06	S		1	%100.00	
	Clindamycin	4	%0.23	R		4	%100.00	
	Cloxacillin	1	%0.06	S		1	%100.00	
	Coagulase Test / Slide (clumping factor)	4	%0.23	Neg Pos		2 2	%50.00 %50.00	
	Coagulase Test / Tube	4	%0.23	Neg Pos		3 1	%75.00 %25.00	
	Colistin Susceptibility Test	1	%0.06	R		1	%100.00	
	Colony on TCBS agar	15	%0.88	Yellow Green		1 14	%6.67 %93.33	
	Colony Size > 0.5 mm at 24hrs	3	%0.18	Pos		3	%100.00	
	D-Glucose, acid	126	%7.38	Both Neg Pos	Pos	1 3 122	%0.79 %2.38 %96.83	✓

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	D-Glucose, gas	59	%3.46	Neg Pos	Pos	13 46	%22.03 %77.97	✓
	D-Mannitol fermentation	59	%3.46	Neg Pos	Pos	14 45	%23.73 %76.27	✓
	D-Mannose fermentation	7	%0.41	Pos	Pos	7	%100.00	✓
➔	DNase (25° / 35° C)	39	%2.28	Pos Neg	Neg	5 34	%12.82 %87.18	✓
	Doxycycline	6	%0.35	R S		1 5	%16.67 %83.33	
	D-Sorbitol fermentation	16	%0.94	Neg Pos	Pos	1 15	%6.25 %93.75	✓
	Dulcitol fermentation	1	%0.06	Pos		1	%100.00	
	D-Xylose fermentation	1	%0.06	Pos		1	%100.00	
➔	EMB (Eosin Methylene Blue agar)	1376	%80.61	3+ 2+ 1- 1+		1056 248 7 65	%76.74 %18.02 %0.51 %4.72	
	Ertapenem	2	%0.12	S		2	%100.00	
	Erythromycin	11	%0.64	S R		2 9	%18.18 %81.82	
	Esculin hydrolysis	20	%1.17	Pos Neg	Neg	2 18	%10.00 %90.00	✓
	Fructose fermentation	4	%0.23	Neg Pos		3 1	%75.00 %25.00	
	Furazolidone Susceptibility Test	2	%0.12	S		2	%100.00	
	GAS / (TSI)	470	%27.53	Neg Pos Both	Pos	156 309 5	%33.19 %65.74 %1.06	✓

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	Gelatin hydrolysis (22° / 35° C)	19	%1.11	Neg Pos		17 2	%89.47 %10.53	
	Gentamicin	131	%7.67	S R		125 6	%95.42 %4.58	
	GN broth	46	%2.69	3+ 1+ 2+		30 6 10	%65.22 %13.04 %21.74	
➔	Gram Stain	1572	%92.09	G- Cocci G+ Cocci, in Cha G- Diplococci G+ Bacilli G- Coccobacilli G- Bacilli G- Cocci, in Cha G+ Coccobacilli	G- Bacilli	10 1 2 11 155 1389 1 3	%0.64 %0.06 %0.13 %0.70 %9.86 %88.36 %0.06 %0.19	✓
	Growth at 42°C	2	%0.12	Pos		2	%100.00	
	Growth at 45°C	1	%0.06	Neg		1	%100.00	
	Growth in 0% NaCl broth/agar	1	%0.06	Pos		1	%100.00	
	Growth in 1% NaCl broth/agar	1	%0.06	Both		1	%100.00	
	Growth in 6% NaCl broth/agar	1	%0.06	Neg		1	%100.00	
	Growth in 6.5% NaCl broth	10	%0.59	Neg Pos		4 6	%40.00 %60.00	
➔	H2S / (TSI)	1108	%64.91	Pos Both Neg	Pos	1055 9 44	%95.22 %0.81 %3.97	✓
	HEA (Hektoen Enteric Agar)	172	%10.08	3+ 2+ 1+		143 25 4	%83.14 %14.53 %2.33	
	Hemolysis (Non)	21	%1.23	Pos Neg		6 15	%28.57 %71.43	
	Hemolysis (Alpha)	2	%0.12	Both Pos		1 1	%50.00 %50.00	

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	Hemolysis (Beta)	11	%0.64	Pos Neg		5 6	%45.45 %54.55	
	Hydrolysis of Esculin/ Bile Esculin Agar	39	%2.28	Neg Pos	Neg	32 7	%82.05 %17.95	✓
	Imipenem	55	%3.22	S R		51 4	%92.73 %7.27	
➔	Indole (I)	1503	%88.05	Pos Both Neg	Neg	66 10 1427	%4.39 %0.67 %94.94	✓
	Kanamycin	2	%0.12	R S		1 1	%50.00 %50.00	
	KOH (3%) String Test	25	%1.46	Neg Pos		2 23	%8.00 %92.00	
➔	Lactose fermentation	268	%15.70	Neg Pos	Neg	249 19	%92.91 %7.09	✓
	L-Arabinose fermentation	15	%0.88	Neg Pos	Neg	1 14	%6.67 %93.33	✓
	LDC (Lysine decarboxylase)	496	%29.06	Both Pos Neg	Pos	7 436 53	%1.41 %87.90 %10.69	✓
	Levofloxacin	13	%0.76	S		13	%100.00	
	LIA	614	%35.97	R/A K/A K/K H2S+ K/A H2S+ k/k	K/K H2S+	9 75 252 111 167	%1.47 %12.21 %41.04 %18.08 %27.20	✓
	L-Rhamnose fermentation	5	%0.29	Pos		5	%100.00	
	MacConkey Agar	615	%36.03	3+ 2+ 1- 1+		514 77 1 23	%83.58 %12.52 %0.16 %3.74	
	Malonate utilization	37	%2.17	Neg Pos		31 6	%83.78 %16.22	

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	Maltose fermentation	9	%0.53	Pos Neg	Pos	8 1	%88.89 %11.11	✓
	Mannitol Salt Agar	68	%3.98	Both Pos Neg		2 40 26	%2.94 %58.82 %38.24	
	Melibiose fermentation	3	%0.18	Neg Pos		1 2	%33.33 %66.67	
	Meropenem	15	%0.88	R S		2 13	%13.33 %86.67	
→	Methyl red (MR)	1316	%77.09	Both Neg Pos	Pos	8 47 1261	%0.61 %3.57 %95.82	✓
	MHA (Mueller Hinton Agar)	72	%4.22	3+ 2+		64 8	%88.89 %11.11	
	Motility	1336	%78.27	Neg Pos Both	Pos	65 1262 9	%4.87 %94.46 %0.67	✓
	Motility (25°C)	55	%3.22	Neg Both Pos		7 1 47	%12.73 %1.82 %85.45	
	MSA (Mannitol Salt Agar)	5	%0.29	1+ 1- 3+		1 3 1	%20.00 %60.00 %20.00	
	myo-Inositol fermentation	4	%0.23	Pos		4	%100.00	
	N2 gas from Nitrate	1	%0.06	Pos		1	%100.00	
	NA (Nutrient Agar)	19	%1.11	1+ 2+ 3+		2 4 13	%10.53 %21.05 %68.42	
	Nalidixic acid	81	%4.75	R S		11 70	%13.58 %86.42	
	Nitrate reduction	10	%0.59	Pos Neg		9 1	%90.00 %10.00	

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	Nitrofurantoin	115	%6.74	S R		111 4	%96.52 %3.48	
	Norfloxacin	17	%1.00	S		17	%100.00	
	Novobiocin	1	%0.06	R		1	%100.00	
	Novobiocin Susceptibility Test	7	%0.41	R		7	%100.00	
	O/129 Susceptibility Test	1	%0.06	R		1	%100.00	
	ODC (Ornithine decarboxylase)	160	%9.37	Neg Pos	Pos	18 142	%11.25 %88.75	✓
	O-F Test / Glucose	30	%1.76	Fermenter Oxidizer Nonoxidizer(Nonutilizer)		24 5 1	%80.00 %16.67 %3.33	
	O-F Test / Lactose	8	%0.47	Nonoxidizer(Nonutilizer) Fermenter Oxidizer		6 1 1	%75.00 %12.50 %12.50	
	O-F Test / Maltose	2	%0.12	Fermenter		2	%100.00	
	O-F Test / Mannitol	6	%0.35	Fermenter Oxidizer Nonoxidizer(Nonutilizer)		4 1 1	%66.67 %16.67 %16.67	
	O-F Test / Xylose	3	%0.18	Fermenter Nonoxidizer(Nonutilizer)		1 2	%33.33 %66.67	
	Ofloxacin	15	%0.88	R S		3 12	%20.00 %80.00	
➔	ONPG test	552	%32.34	Neg Pos Both	Neg	522 27 3	%94.57 %4.89 %0.54	✓
	Optochin Susceptibility Test	4	%0.23	R		4	%100.00	
	Other	12	%0.70	2+ 3+		3 9	%25.00 %75.00	

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➔	Oxidase Test	515	%30.17	Neg Both Pos	Neg	478 2 35	%92.82 %0.39 %6.80	✓
	PAD (Phenylalanine deaminase)	199	%11.66	Pos Neg	Neg	1 198	%0.50 %99.50	✓
	Penicillin	9	%0.53	S R		3 6	%33.33 %66.67	
	Pigment 1	32	%1.87	Green Brown Red		8 5 19	%25.00 %15.63 %59.38	
	Pigment 2	17	%1.00	Yellow Yellow-Green Orange-Pink		4 3 10	%23.53 %17.65 %58.82	
	Pigment 3	13	%0.76	Violet Lavender-Green Purple		4 1 8	%30.77 %7.69 %61.54	
	Piperacillin	6	%0.35	S		6	%100.00	
	Piperacillin-tazobactam	4	%0.23	S		4	%100.00	
	Polymyxine B Susceptibility Test	1	%0.06	R		1	%100.00	
	PYR Test - Pyrrolidonylarylamidase	1	%0.06	Neg		1	%100.00	
	Raffinose fermentation	15	%0.88	Neg Both Pos	Neg	5 1 9	%33.33 %6.67 %60.00	✓
➔	SBA (Sheep Blood Agar)	1242	%72.76	2+ 3+ 1- 1+		125 1087 4 26	%10.06 %87.52 %0.32 %2.09	
	Serogrouping or Serotyping Tests	60	%3.51	No Yes	Yes	1 59	%1.67 %98.33	✓
	SF (Selenite-F broth)	107	%6.27	1- 2+ 3+ 1+		1 27 68 11	%0.93 %25.23 %63.55 %10.28	

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	SMAC (Sorbitol-MacConkey agar)	11	%0.64	2+ 3+		2 9	%18.18 %81.82	
	SS (Salmonella-Shigella agar)	299	%17.52	3+ 2+ 1- 1+		225 58 1 15	%75.25 %19.40 %0.33 %5.02	
	String Test (sodium deoxycholate)	2	%0.12	Neg Pos		1 1	%50.00 %50.00	
	Sucrose fermentation	51	%2.99	Neg Pos Both	Neg	41 8 2	%80.39 %15.69 %3.92	✓
	Sulfamethoxazole	9	%0.53	S		9	%100.00	
	Swarming colonies	9	%0.53	Neg Pos		6 3	%66.67 %33.33	
	SXT Susceptibility Test	28	%1.64	S R		25 3	%89.29 %10.71	
	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	91	%5.33	1- 1+ 3+ 2+		53 8 19 11	%58.24 %8.79 %20.88 %12.09	
	TDA (Tryptophan deaminase)	22	%1.29	Neg Pos		19 3	%86.36 %13.64	
	Tetracycline	25	%1.46	R S		3 22	%12.00 %88.00	
	Thioglycolate broth / Medium	8	%0.47	3+ 2+		7 1	%87.50 %12.50	
	Tigecycline	1	%0.06	S		1	%100.00	
	Tobramycin	8	%0.47	S		8	%100.00	
	Trehalose fermentation	7	%0.41	Pos		7	%100.00	
	Trimethoprim	8	%0.47	S		8	%100.00	
	Trimethoprim-sulfamethoxazole	135	%7.91	R S		3 132	%2.22 %97.78	

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	TSA (Trypticase Soy Agar)	12	%0.70	3+ 2+ 1+		7 2 3	%58.33 %16.67 %25.00	
	TSB (Trypticase Soy Broth)	14	%0.82	2+ 3+ 1+		3 9 2	%21.43 %64.29 %14.29	
→	TSI	1568	%91.86	A/A Gas- A/A H2S+ A/A Gas+ K/K K/A H2S+ K/A G+/H2S+ K/A Gas- K/A Gas+	K/A H2S+	22 93 18 35 886 375 86 53	%1.40 %5.93 %1.15 %2.23 %56.51 %23.92 %5.48 %3.38	✓
→	Urea hydrolysis / (Agar)	1428	%83.66	Pos Both Neg	Neg	65 16 1347	%4.55 %1.12 %94.33	✓
	Vancomycin	5	%0.29	R		5	%100.00	
	Vancomycin MIC E test	1	%0.06	R		1	%100.00	
	Vancomycin Susceptibility Test	5	%0.29	R S		3 2	%60.00 %40.00	
→	Voges-Proskauer (VP)	1155	%67.66	Both Pos Neg	Neg	7 39 1109	%0.61 %3.38 %96.02	✓
	Voges-Proskauer (VP) / (25°C)	55	%3.22	Neg Pos		52 3	%94.55 %5.45	
→	XLD (Xylose Lysine Deoxycholate agar)	1079	%63.21	2+ 3+ 1- 1+		150 885 4 40	%13.90 %82.02 %0.37 %3.71	
	Yellow Pigment	1	%0.06	Neg		1	%100.00	