

برگشت (/IACLD/Panel/Labs/Answers/42790)

چاپ

دوره چهل و هشتم تابستان 1403

M1 Results

باکتری جدا شده از کشت مدفوع

کد نمونه 2370	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
→	Salmonella serotype Paratyphi A	1065	%59.93	✓
	Salmonella spp.	150	%8.44	●
	Shigella spp.	103	%5.80	
	Shigella sonnei (serogroup D)	82	%4.61	
	Escherichia coli	74	%4.16	
	Yersinia enterocolitica	32	%1.80	
	Salmonella serotype Typhi	29	%1.63	●
	Not Reported	28	%1.58	
	Plesiomonas shigelloides	27	%1.52	
	Hafnia alvei	20	%1.13	
	Shigella dysenteriae (serogroup A)	19	%1.07	
	Yersinia spp.	16	%0.90	
	Shigella flexneri (serogroup B)	12	%0.68	
	Salmonella serotype Choleraesuis	11	%0.62	●
	Aeromonas spp.	10	%0.56	
	Shigella boydii (serogroup C)	10	%0.56	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	<i>Citrobacter freundii</i>	10	%0.56	
	<i>Aeromonas hydrophila</i> complex	5	%0.28	
	<i>Salmonella</i> spp. , Nontyphoidal	5	%0.28	●
	<i>Citrobacter</i> spp.	4	%0.23	
	<i>Enterobacter</i> spp.	3	%0.17	
	<i>Citrobacter diversus</i> (koseri)	3	%0.17	
	<i>Edwardsiella</i> spp	3	%0.17	
	<i>Escherichia coli</i> , inactive	3	%0.17	
	<i>Vibrio alginolyticus</i>	3	%0.17	
	<i>Enterobacter cloacae</i>	3	%0.17	
	<i>Klebsiella</i> spp.	3	%0.17	
	<i>Vibrio</i> spp	2	%0.11	
	<i>Escherichia</i> spp.	2	%0.11	
	<i>Vibrio cholerae</i>	2	%0.11	
	<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i>	2	%0.11	
	<i>Klebsiella pneumoniae</i> subsp. <i>ozaenae</i>	2	%0.11	
	<i>Pseudomonas</i> spp.	2	%0.11	
	<i>Clostridium Perfringens</i>	2	%0.11	
	<i>Providencia</i> spp.	2	%0.11	
	<i>Moraganella morgani</i> biogroup 1	1	%0.06	
	No bacteria isolated	1	%0.06	
	<i>Enterobacter amnigenus</i> 1	1	%0.06	
	<i>Enterobacter aerogenes</i>	1	%0.06	
	<i>Acinetobacter</i> spp.	1	%0.06	
	Streptococci , Beta-hemolytic	1	%0.06	
	<i>Vibrio mimicus</i>	1	%0.06	
	<i>Aerococcus</i> spp.	1	%0.06	
	<i>Serratia</i> spp.	1	%0.06	
	<i>Yersinia ruckeri</i>	1	%0.06	
	<i>Moraganella morgani</i> subsp. <i>sibonii</i>	1	%0.06	

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	Vibrio parahaemolyticus	1	%0.06	
	Yersinia pseudotuberculosis	1	%0.06	
	Moraganella morgani subsp. morgani	1	%0.06	
	Pantoea (Enterobacter) agglomerans	1	%0.06	
	Pseudomonas aeruginosa	1	%0.06	
	Enterococcus faecalis	1	%0.06	
	Salmonella, Nontyphoidal serogroup D	1	%0.06	●
	Chryseobacterium spp.	1	%0.06	
	Enterobacter asburiae	1	%0.06	
	Hafnia alvei biogroup 1	1	%0.06	
	Aeromonas caviae complex	1	%0.06	
	Bacillus spp.	1	%0.06	
	Escherichia vulneris	1	%0.06	
	Moraxella spp.	1	%0.06	
	Pantoea spp.	1	%0.06	
	Salmonella serotype Gallinarum	1	%0.06	●
	Salmonella, Nontyphoidal serogroup C	1	%0.06	●

جدول شماره 2

درصد	تعداد	تشخیص	درصد	تعداد	نمونه
60.89	1065	تشخیص های درست		1885	نمونه های فرستاده شده
11.32	198	تشخیص های نیمه درست	94.27	1777	جوابهای دریافتی (تعداد موارد ثبت شده)
27.79	486	تشخیص های اشتباه	98.42	1749	جوابهای دارای تشخیص
			1.58	28	جوابهای بدون تشخیص

جدول شماره 3

باسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	ADH (Arginine dihydrolyse)	68	%3.83	Neg Both Pos	Neg	40 1 27	%58.82 %1.47 %39.71	✓
	Adonitol fermentation	5	%0.28	Neg Pos		2 3	%40.00 %60.00	
	Amikacin	79	%4.45	R S		11 68	%13.92 %86.08	
	Amoxicillin	11	%0.62	S R		10 1	%90.91 %9.09	
	Amoxicillin-clavulanic acid	2	%0.11	S		2	%100.00	
	Ampicillin	68	%3.83	S R		47 21	%69.12 %30.88	
	Ampicillin Susceptibility Test	13	%0.73	R S		7 6	%53.85 %46.15	
	Ampicillin-sulbactam	1	%0.06	S		1	%100.00	
	Azithromycin	26	%1.46	R S		10 16	%38.46 %61.54	
	Bacitracin 0.04 U Susceptibility Test	5	%0.28	R S		4 1	%80.00 %20.00	
	Bacitracin 10 U Susceptibility Test	3	%0.17	R		3	%100.00	
	Bacitracin Susceptibility Test	11	%0.62	R S		9 2	%81.82 %18.18	
	BGA (Brilliant Green Agar)	39	%2.19	1- 1+ 3+ 2+		1 6 27 5	%2.56 %15.38 %69.23 %12.82	
	BHI Agar (Brain Heart Infusion Agar)	38	%2.14	1+ 2+ 3+		3 4 31	%7.89 %10.53 %81.58	

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	BSA (Bismuth Sulfite Agar)	8	%0.45	2+ 3+ 1-		4 3 1	%50.00 %37.50 %12.50	
	CAMP Test	2	%0.11	Neg		2	%100.00	
	Campylobacter Selective Agar	2	%0.11	1-		2	%100.00	
	Carbenicillin Susceptibility Test	2	%0.11	S		2	%100.00	
	Catalase Test	391	%22.00	Both Neg Pos	Pos	6 149 236	%1.53 %38.11 %60.36	✓
	Cefazolin	40	%2.25	R S		9 31	%22.50 %77.50	
	Cefepime	20	%1.13	S		20	%100.00	
	Cefixime	59	%3.32	R S		3 56	%5.08 %94.92	
	Cefoperazone	4	%0.23	S		4	%100.00	
	Cefotaxime	32	%1.80	R S		2 30	%6.25 %93.75	
	Cefoxitin	15	%0.84	R S		1 14	%6.67 %93.33	
	Ceftazidime	35	%1.97	R S		5 30	%14.29 %85.71	
	Ceftizoxime	14	%0.79	S		14	%100.00	
	Ceftriaxone	74	%4.16	S R		68 6	%91.89 %8.11	
	Cephalexin	10	%0.56	R S		3 7	%30.00 %70.00	
	Cephalothin	13	%0.73	S		13	%100.00	

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	Cephalothin Susceptibility Test	4	%0.23	R S		1 3	%25.00 %75.00	
	CHA (Chocolate Agar)	218	%12.27	1- 1+ 3+ 2+		4 10 172 32	%1.83 %4.59 %78.90 %14.68	
	Chloramphenicol	11	%0.62	R S		1 10	%9.09 %90.91	
	CHROMagar Orientation	1	%0.06	3+		1	%100.00	
	CIN Agar (cefsulodin-Irgasan -novobiocin)	1	%0.06	2+		1	%100.00	
	Ciprofloxacin	144	%8.10	R S		6 138	%4.17 %95.83	
→	Citrate (Simmons) (C)	1644	%92.52	Both Neg Pos	Neg	20 1472 152	%1.22 %89.54 %9.25	✓
	Clindamycin	7	%0.39	S R		1 6	%14.29 %85.71	
	Coagulase Test / Slide (clumping factor)	5	%0.28	Neg		5	%100.00	
	Coagulase Test / Tube	7	%0.39	Pos Neg		3 4	%42.86 %57.14	
	Colistin	3	%0.17	S R		2 1	%66.67 %33.33	
	Colistin MIC E test	1	%0.06	S		1	%100.00	
	Colistin Susceptibility Test	4	%0.23	R S		2 2	%50.00 %50.00	
	Colony on TCBS agar	12	%0.68	Yellow Green		4 8	%33.33 %66.67	

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	Colony Size > 0.5 mm at 24hrs	5	%0.28	Neg Pos		1 4	%20.00 %80.00	
	D-Glucose, acid	151	%8.50	Neg Pos	Pos	10 141	%6.62 %93.38	✓
	D-Glucose, gas	86	%4.84	Neg Both Pos	Pos	15 4 67	%17.44 %4.65 %77.91	✓
→	D-Mannitol fermentation	55	%3.10	Neg Pos		15 40	%27.27 %72.73	
→	D-Mannose fermentation	15	%0.84	Neg Pos		2 13	%13.33 %86.67	
	DNase (25° / 35° C)	98	%5.51	Pos Neg	Neg	4 94	%4.08 %95.92	✓
	Doxycycline	13	%0.73	R S		9 4	%69.23 %30.77	
	D-Sorbitol fermentation	25	%1.41	Pos		25	%100.00	
	Dulcitol fermentation	1	%0.06	Pos		1	%100.00	
	D-Xylose fermentation	7	%0.39	Neg Both Pos		5 1 1	%71.43 %14.29 %14.29	
→	EMB (Eosin Methylene Blue agar)	1422	%80.02	3+ 2+ 1- 1+		1033 293 10 86	%72.64 %20.60 %0.70 %6.05	
	Ertapenem	1	%0.06	S		1	%100.00	
	Erythromycin	10	%0.56	R		10	%100.00	
	Esculin hydrolysis	38	%2.14	Neg	Neg	38	%100.00	✓

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	Fosfomycin	5	%0.28	S		5	%100.00	
	Furazolidone Susceptibility Test	2	%0.11	S		2	%100.00	
	GAS / (TSI)	604	%33.99	Neg Pos Both	Pos	247 347 10	%40.89 %57.45 %1.66	✓
	Gelatin hydrolysis (22° / 35° C)	14	%0.79	Neg Pos		13 1	%92.86 %7.14	
	Gentamicin	106	%5.97	S R		91 15	%85.85 %14.15	
	Germ Tube Test	3	%0.17	Neg		3	%100.00	
	Glycerol fermentation	1	%0.06	Pos		1	%100.00	
	GN broth	77	%4.33	3+ 1- 1+ 2+		56 1 4 16	%72.73 %1.30 %5.19 %20.78	
→	Gram Stain	1639	%92.23	G- Cocci G- Diplococci G+ Cocci G+ Bacilli G- Coccobacilli G- Bacilli G- Cocci, in Cha G+ Coccobacilli	G- Bacilli	4 1 1 5 179 1445 1 3	%0.24 %0.06 %0.06 %0.31 %10.92 %88.16 %0.06 %0.18	✓
	Growth at 42°C	5	%0.28	Pos		5	%100.00	
	Growth in 6% NaCl broth/agar	4	%0.23	Pos Neg		1 3	%25.00 %75.00	
	Growth in 6.5% NaCl broth	15	%0.84	Neg Pos		10 5	%66.67 %33.33	
	Growth in Thioglycolate (anaerobic)	2	%0.11	Pos		2	%100.00	

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→	H2S / (TSI)	1039	%58.47	Pos Both Neg	Neg	57 11 971	%5.49 %1.06 %93.46	✓
	HEA (Hektoen Enteric Agar)	205	%11.54	3+ 2+ 1+ 1-		151 38 14 2	%73.66 %18.54 %6.83 %0.98	
	Hemolysis (Non)	25	%1.41	Neg Pos		22 3	%88.00 %12.00	
	Hemolysis (Alpha)	5	%0.28	Pos		5	%100.00	
	Hemolysis (Beta)	16	%0.90	Pos Neg		6 10	%37.50 %62.50	
	Hippurate hydrolysis Test	3	%0.17	Neg		3	%100.00	
	Hydrolysis of Esculin/ Bile Esculin Agar	84	%4.73	Pos Neg	Neg	2 82	%2.38 %97.62	✓
	Imipenem	50	%2.81	S R		48 2	%96.00 %4.00	
→	Indole (I)	1580	%88.91	Pos Both Neg	Neg	52 10 1518	%3.29 %0.63 %96.08	✓
	Kanamycin	1	%0.06	S		1	%100.00	
	KOH (3%) String Test	11	%0.62	Pos		11	%100.00	
→	Lactose fermentation	330	%18.57	Neg Pos	Neg	317 13	%96.06 %3.94	✓
	L-Arabinose fermentation	20	%1.13	Pos		20	%100.00	
→	LDC (Lysine decarboxylase)	517	%29.09	Both Pos Neg	Neg	4 67 446	%0.77 %12.96 %86.27	✓

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	Levofloxacin	20	%1.13	R S		1 19	%5.00 %95.00	
	LIA	645	%36.30	R/A K/A K/K H2S+ K/A H2S+ k/k	K/A	11 514 8 10 102	%1.71 %79.69 %1.24 %1.55 %15.81	✓
	Linezolid	1	%0.06	R		1	%100.00	
	L-Rhamnose fermentation	5	%0.28	Pos		5	%100.00	
	MacConkey Agar	639	%35.96	3+ 2+ 1+ 1-		496 104 34 5	%77.62 %16.28 %5.32 %0.78	
	Malonate utilization	29	%1.63	Neg Pos		23 6	%79.31 %20.69	
→	Maltose fermentation	19	%1.07	Pos Neg		15 4	%78.95 %21.05	
	Mannitol Salt Agar	102	%5.74	Both Pos Neg		3 52 47	%2.94 %50.98 %46.08	
	Melibiose fermentation	4	%0.23	Pos		4	%100.00	
	Meropenem	15	%0.84	R S		4 11	%26.67 %73.33	
→	Methyl red (MR)	1460	%82.16	Both Neg Pos	Pos	3 59 1398	%0.21 %4.04 %95.75	✓
	MHA (Mueller Hinton Agar)	71	%4.00	1- 1+ 3+ 2+		1 2 55 13	%1.41 %2.82 %77.46 %18.31	

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→	Motility	1465	%82.44	Neg Pos Both	Pos	230 1223 12	%15.70 %83.48 %0.82	✓
	Motility (25°C)	100	%5.63	Neg Both Pos		19 3 78	%19.00 %3.00 %78.00	
	MSA (Mannitol Salt Agar)	18	%1.01	1+ 1- 3+ 2+		2 11 2 3	%11.11 %61.11 %11.11 %16.67	
	myo-Inositol fermentation	3	%0.17	Neg		3	%100.00	
	NA (Nutrient Agar)	12	%0.68	2+ 3+		3 9	%25.00 %75.00	
	Nalidixic acid	74	%4.16	R S		7 67	%9.46 %90.54	
	Nitrate reduction	8	%0.45	Pos Neg		5 3	%62.50 %37.50	
	Nitrofurantoin	96	%5.40	R S		7 89	%7.29 %92.71	
	Norfloxacin	20	%1.13	S R		19 1	%95.00 %5.00	
	Novobiocin Susceptibility Test	10	%0.56	S R		2 8	%20.00 %80.00	
	O/129 Susceptibility Test	2	%0.11	R		2	%100.00	
	ODC (Ornithine decarboxylase)	201	%11.31	Neg Pos	Pos	28 173	%13.93 %86.07	✓
	O-F Test / Glucose	47	%2.64	Fermenter Oxidizer Nonoxidizer(Nonutilizer)		33 13 1	%70.21 %27.66 %2.13	

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	O-F Test / Lactose	20	%1.13	Nonoxidizer(Nonutilizer) Fermenter Oxidizer		12 4 4	%60.00 %20.00 %20.00	
	O-F Test / Maltose	7	%0.39	Fermenter Nonoxidizer(Nonutilizer)		5 2	%71.43 %28.57	
	O-F Test / Mannitol	12	%0.68	Nonoxidizer(Nonutilizer) Fermenter Oxidizer		3 3 6	%25.00 %25.00 %50.00	
	O-F Test / Xylose	7	%0.39	Oxidizer Fermenter Nonoxidizer(Nonutilizer)		1 3 3	%14.29 %42.86 %42.86	
	Ofloxacin	8	%0.45	S		8	%100.00	
→	ONPG test	705	%39.67	Neg Pos Both	Neg	642 59 4	%91.06 %8.37 %0.57	✓
	Optochin Susceptibility Test	10	%0.56	S R		1 9	%10.00 %90.00	
	Other	11	%0.62	2+ 3+ 1+		2 7 2	%18.18 %63.64 %18.18	
	Oxacillin	3	%0.17	R		3	%100.00	
→	Oxidase Test	701	%39.45	Neg Both Pos	Neg	599 6 96	%85.45 %0.86 %13.69	✓
	PAD (Phenylalanine deaminase)	182	%10.24	Pos Neg	Neg	3 179	%1.65 %98.35	✓
	Penicillin	4	%0.23	S R		3 1	%75.00 %25.00	

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	Pigment 1	52	%2.93	Green Brown Red		12 6 34	%23.08 %11.54 %65.38	
	Pigment 2	20	%1.13	Yellow Yellow-Green Orange-Pink		12 1 7	%60.00 %5.00 %35.00	
	Pigment 3	15	%0.84	Violet Lavender-Green Purple		6 1 8	%40.00 %6.67 %53.33	
	Piperacillin	2	%0.11	S		2	%100.00	
	Piperacillin-tazobactam	2	%0.11	S		2	%100.00	
	Polymyxine B Susceptibility Test	3	%0.17	R		3	%100.00	
	Raffinose fermentation	9	%0.51	Neg Pos		5 4	%55.56 %44.44	
	Rifampin	1	%0.06	R		1	%100.00	
→	SBA (Sheep Blood Agar)	1351	%76.03	1- 1+ 2+ 3+		9 39 177 1126	%0.67 %2.89 %13.10 %83.35	
	Serogrouping or Serotyping Tests	99	%5.57	Yes No	Yes	98 1	%98.99 %1.01	✓
	SF (Selenite-F broth)	115	%6.47	2+ 3+ 1+ 1-		32 62 16 5	%27.83 %53.91 %13.91 %4.35	
	SMAC (Sorbitol-MacConkey agar)	25	%1.41	1- 1+ 2+ 3+		2 1 8 14	%8.00 %4.00 %32.00 %56.00	

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→	SS (Salmonella-Shigella agar)	284	%15.98	3+ 2+ 1- 1+		189 66 4 25	%66.55 %23.24 %1.41 %8.80	
	String Test (sodium deoxycholate)	2	%0.11	Neg		2	%100.00	
→	Sucrose fermentation	60	%3.38	Neg Pos Both	Neg	53 6 1	%88.33 %10.00 %1.67	✓
	Sulfamethoxazole	8	%0.45	S		8	%100.00	
	Swarming colonies	7	%0.39	Neg Pos		6 1	%85.71 %14.29	
	SXT Susceptibility Test	29	%1.63	S R		28 1	%96.55 %3.45	
	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	98	%5.51	1- 1+ 3+ 2+		84 6 5 3	%85.71 %6.12 %5.10 %3.06	
	TDA (Tryptophan deaminase)	6	%0.34	Neg		6	%100.00	
	Tetracycline	36	%2.03	R S		2 34	%5.56 %94.44	
	Thioglycolate broth / Medium	5	%0.28	3+ 2+		3 2	%60.00 %40.00	
	Tigecycline	1	%0.06	S		1	%100.00	
	Tobramycin	8	%0.45	R S		4 4	%50.00 %50.00	
	Trehalose fermentation	7	%0.39	Pos		7	%100.00	
	Trimethoprim	7	%0.39	S		7	%100.00	
	Trimethoprim-sulfamethoxazole	114	%6.42	R S		5 109	%4.39 %95.61	

باسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	TSA (Trypticase Soy Agar)	6	%0.34	3+ 2+ 1+ 1-		2 2 1 1	%33.33 %33.33 %16.67 %16.67	
	TSB (Trypticase Soy Broth)	17	%0.96	3+ 2+ 1+		12 3 2	%70.59 %17.65 %11.76	
→	TSI	1680	%94.54	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 Gas+	99 10 56 34 72 16 662 731	%5.89 %0.60 %3.33 %2.02 %4.29 %0.95 %39.40 %43.51	✓
→	Urea hydrolysis / (Agar)	1493	%84.02	Pos Both Neg	Neg	36 6 1451	%2.41 %0.40 %97.19	✓
	Vancomycin	11	%0.62	S R		1 10	%9.09 %90.91	
	Vancomycin MIC E test	3	%0.17	R		3	%100.00	
	Vancomycin Susceptibility Test	6	%0.34	R S		5 1	%83.33 %16.67	
→	Voges-Proskauer (VP)	1261	%70.96	Both Pos Neg	Neg	4 59 1198	%0.32 %4.68 %95.00	✓
	Voges-Proskauer (VP) / (25°C)	85	%4.78	Neg Pos		76 9	%89.41 %10.59	
→	XLD (Xylose Lysine Deoxycholate agar)	1220	%68.66	2+ 3+ 1- 1+		219 930 10 61	%17.95 %76.23 %0.82 %5.00	
	Yellow Pigment	8	%0.45	Neg Pos Both		6 1 1	%75.00 %12.50 %12.50	

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