

برگشت (/IACLD/Panel/Labs/Answers/36743)

چاپ

دوره چهل و پنجم تابستان 1402

M1 Results

باکتری جدا شده از کشت مدفوع بیمار با علائم گاستروانتریت

کد نمونه 1098	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
	Plesiomonas shigelloides	230	%26.71	✓
➔	Shigella sonnei (serogroup D)	209	%24.27	
	Shigella spp.	174	%20.21	
	Escherichia coli	40	%4.65	
	Shigella dysenteriae (serogroup A)	21	%2.44	
	Not Reported	17	%1.97	
	Aeromonas spp.	16	%1.86	
	Shigella flexneri (serogroup B)	15	%1.74	
	Yersinia enterocolitica	11	%1.28	
	Streptococci , Non-hemolytic	10	%1.16	
	Salmonella serotype Paratyphi A	7	%0.81	
	Edwardsiella tarda	7	%0.81	
	Staphylococcus saprophyticus	7	%0.81	
	Escherichia coli, inactive	7	%0.81	
	Listeria monocytogenes	7	%0.81	
	Enterococcus spp.	6	%0.70	

انتخاب شما	بakteri گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Salmonella spp.	6	%0.70	
	Aeromonas hydrophila complex	5	%0.58	
	Vibrio parahaemolyticus	4	%0.46	
	Enterococcus faecalis	4	%0.46	
	Escherichia spp.	4	%0.46	
	Streptococcus spp.	4	%0.46	
	Campylobacter jejuni	3	%0.35	
	Aeromonas veronii biovar sobria	3	%0.35	
	Moraganelia morgani biogroup 1	3	%0.35	
	Vibrio spp	2	%0.23	
	Campylobacter coli	2	%0.23	
	Hafnia alvei	2	%0.23	
	Staphylococcus spp.	2	%0.23	
	Enterobacter spp.	2	%0.23	
	Providencia rustigianii	2	%0.23	
	Yersinia spp.	2	%0.23	
	No bacteria isolated	2	%0.23	
	Staphylococcus epidermidis	2	%0.23	
	Salmonella, Nontyphoidal serogroup C	1	%0.12	
	Streptococci group D (Non-enterococci) / Streptococcus bovis	1	%0.12	
	Moraganelia morgani subsp. morgani	1	%0.12	
	Klebsiella pneumoniae subsp. pneumoniae	1	%0.12	
	Alcaligenes spp.	1	%0.12	
	Aeromonas caviae complex	1	%0.12	
	Pseudomonas spp.	1	%0.12	
	Staphylococci , Coagulase-negative (CoNS)	1	%0.12	
	Bacillus spp.	1	%0.12	
	Campylobacter spp.	1	%0.12	
	Vibrio cholerae	1	%0.12	
	Aerococcus spp.	1	%0.12	

انتخاب شما	بakterی گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Staphylococci , Coagulase-positive	1	%0.12	
	Escherichia coli, Enteropathogenic	1	%0.12	
	Yersinia pseudotuberculosis	1	%0.12	
	Escherichia fergusonii	1	%0.12	
	Shigella boydii (serogroup C)	1	%0.12	
	Enterobacter aerogenes	1	%0.12	
	Staphylococcus aureus	1	%0.12	
	Salmonella serotype Typhi	1	%0.12	
	NFGNB - Nonfermenting Gram-Negative Bacilli	1	%0.12	
	Providencia spp.	1	%0.12	
	Streptococci , Viridans group	1	%0.12	

جدول شماره 2

درصد	تعداد	تشخیص های درست	درصد	تعداد	نمونه های فرستاده شده
27.25	230	تشخیص های درست		898	نمونه های فرستاده شده
0.00	0	تشخیص های نیمه درست	95.77	860	جوابهای دریافتی (تعداد موارد ثبت شده)
72.75	614	تشخیص های اشتباه	98.14	844	جوابهای دارای تشخیص
			1.98	17	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)	48	%5.57	Neg Pos	Pos	13 35	%27.08 %72.92	✓
	Adonitol fermentation	8	%0.93	Neg Pos	Neg	5 3	%62.50 %37.50	✓
	Amikacin	29	%3.37	R S		11 18	%37.93 %62.07	
	Amoxicillin	4	%0.46	R		4	%100.00	

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	Amoxicillin-clavulanic acid	1	%0.12	R		1	%100.00	
	Ampicillin	27	%3.14	R S		21 6	%77.78 %22.22	
	Ampicillin Susceptibility Test	6	%0.70	R		6	%100.00	
	Amygdalin	1	%0.12	Neg		1	%100.00	
	Azithromycin	6	%0.70	R S		1 5	%16.67 %83.33	
	Aztreonam	1	%0.12	R		1	%100.00	
	Bacitracin 0.04 U Susceptibility Test	7	%0.81	R S		6 1	%85.71 %14.29	
	Bacitracin 10 U Susceptibility Test	2	%0.23	R		2	%100.00	
	Bacitracin Susceptibility Test	14	%1.63	R		14	%100.00	
	BGA (Brilliant Green Agar)	17	%1.97	3+ 2+ 1- 1+		8 6 2 1	%47.06 %35.29 %11.76 %5.88	
	BHI Agar (Brain Heart Infusion Agar)	12	%1.39	3+ 2+		10 2	%83.33 %16.67	
	CAMP Test	9	%1.05	Neg Pos		4 5	%44.44 %55.56	
	Carbenicillin	2	%0.23	R S		1 1	%50.00 %50.00	
	Carbenicillin Susceptibility Test	3	%0.35	R S		1 2	%33.33 %66.67	
	Catalase Test	233	%27.06	Both Neg Pos	Pos	6 58 169	%2.58 %24.89 %72.53	✓

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	Cefazolin	13	%1.51	R S		4 9	%30.77 %69.23	
	Cefepime	12	%1.39	R S		2 10	%16.67 %83.33	
	Cefixime	22	%2.56	R S		5 17	%22.73 %77.27	
	Cefoperazone	1	%0.12	S		1	%100.00	
	Cefotaxime	13	%1.51	R S		1 12	%7.69 %92.31	
	Cefoxitin	9	%1.05	S		9	%100.00	
	Cefpodoxime	1	%0.12	S		1	%100.00	
	Ceftazidime	10	%1.16	S R		9 1	%90.00 %10.00	
	Ceftizoxime	8	%0.93	S R		7 1	%87.50 %12.50	
	Ceftriaxone	19	%2.21	R S		3 16	%15.79 %84.21	
	Cephalexin	2	%0.23	S		2	%100.00	
	Cephalothin	5	%0.58	R S		1 4	%20.00 %80.00	
	Cephalothin Susceptibility Test	3	%0.35	R S		1 2	%33.33 %66.67	
	CHA (Chocolate Agar)	120	%13.94	1- 1+ 3+ 2+		4 12 87 17	%3.33 %10.00 %72.50 %14.17	
	Chloramphenicol	4	%0.46	S		4	%100.00	

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	Ciprofloxacin	47	%5.46	S R		40 7	%85.11 %14.89	
→	Citrate (Simmons) (C)	740	%85.95	Both Neg Pos	Neg	4 719 17	%0.54 %97.16 %2.30	✓
	Clindamycin	4	%0.46	S R		1 3	%25.00 %75.00	
	Cloxacillin	2	%0.23	R		2	%100.00	
	Coagulase Test / Slide (clumping factor)	9	%1.05	Neg		9	%100.00	
	Coagulase Test / Tube	15	%1.74	Pos Neg		2 13	%13.33 %86.67	
	Colistin	1	%0.12	S		1	%100.00	
	Colistin Susceptibility Test	2	%0.23	R S		1 1	%50.00 %50.00	
	Colony on TCBS agar	5	%0.58	Yellow Green		2 3	%40.00 %60.00	
	Colony Size > 0.5 mm at 24hrs	3	%0.35	Pos		3	%100.00	
	D-Glucose, acid	91	%10.57	Neg Pos	Pos	7 84	%7.69 %92.31	✓
	D-Glucose, gas	36	%4.18	Neg Pos	Neg	26 10	%72.22 %27.78	✓
	D-Mannitol fermentation	52	%6.04	Neg Pos	Neg	36 16	%69.23 %30.77	✓
	D-Mannose fermentation	4	%0.46	Neg Pos	Neg	1 3	%25.00 %75.00	✓

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	DNase (25° / 35° C)	90	%10.45	Pos Both Neg	Neg	30 2 58	%33.33 %2.22 %64.44	✓
	Doxycycline	5	%0.58	R S		1 4	%20.00 %80.00	
	D-Sorbitol fermentation	5	%0.58	Neg	Neg	5	%100.00	✓
	Dulcitol fermentation	1	%0.12	Neg	Neg	1	%100.00	✓
	D-Xylose fermentation	5	%0.58	Pos Neg	Neg	1 4	%20.00 %80.00	✓
➔	EMB (Eosin Methylene Blue agar)	673	%78.16	1- 1+ 3+ 2+		176 179 205 113	%26.15 %26.60 %30.46 %16.79	
	Ertapenem	2	%0.23	S R		1 1	%50.00 %50.00	
	Erythromycin	7	%0.81	S R		4 3	%57.14 %42.86	
	Esculin hydrolysis	26	%3.02	Pos Neg	Neg	3 23	%11.54 %88.46	✓
	Furazolidone Susceptibility Test	1	%0.12	S		1	%100.00	
	GAS / (TSI)	225	%26.13	Neg Pos Both	Neg	197 27 1	%87.56 %12.00 %0.44	✓
	Gelatin hydrolysis (22° / 35° C)	25	%2.90	Neg Pos	Neg	21 4	%84.00 %16.00	✓
	Gentamicin	33	%3.83	S R		23 10	%69.70 %30.30	
	Germ Tube Test	2	%0.23	Neg		2	%100.00	

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	Glycerol fermentation	1	%0.12	Pos		1	%100.00	
	GN broth	29	%3.37	3+ 1- 1+ 2+		18 1 2 8	%62.07 %3.45 %6.90 %27.59	
→	Gram Stain	789	%91.64	G- Cocci G+ Cocci, in Cha G- Diplococci G+ Cocci G+ Bacilli G- Coccobacilli G+ Diplococci G- Bacilli G- Cocci, in Cha G+ Coccobacilli	G- Bacilli	1 4 5 26 4 118 2 615 1 13	%0.13 %0.51 %0.63 %3.30 %0.51 %14.96 %0.25 %77.95 %0.13 %1.65	✓
	Growth at 42°C	2	%0.23	Neg Pos		1 1	%50.00 %50.00	
	Growth in 0% NaCl broth/agar	5	%0.58	Neg Pos		2 3	%40.00 %60.00	
	Growth in 1% NaCl broth/agar	1	%0.12	Pos		1	%100.00	
	Growth in 6% NaCl broth/agar	10	%1.16	Pos Neg		4 6	%40.00 %60.00	
	Growth in 6.5% NaCl broth	31	%3.60	Neg Pos	Neg	27 4	%87.10 %12.90	✓
	Growth in Thioglycolate (anaerobic)	1	%0.12	Pos		1	%100.00	
→	H2S / (TSI)	425	%49.36	Pos Both Neg	Neg	3 5 417	%0.71 %1.18 %98.12	✓
	HEA (Hektoen Enteric Agar)	89	%10.34	3+ 2+ 1+ 1-		56 20 12 1	%62.92 %22.47 %13.48 %1.12	
	Hemolysis (Non)	26	%3.02	Neg Pos	Neg	16 10	%61.54 %38.46	✓

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	Hemolysis (Alpha)	4	%0.46	Pos Neg		2 2	%50.00 %50.00	
	Hemolysis (Beta)	26	%3.02	Neg Pos		9 17	%34.62 %65.38	
	Hippurate hydrolysis Test	2	%0.23	Neg Pos		1 1	%50.00 %50.00	
	Hydrolysis of Esculin/ Bile Esculin Agar	80	%9.29	Pos Neg	Neg	5 75	%6.25 %93.75	✓
	Imipenem	13	%1.51	S R		11 2	%84.62 %15.38	
→	Indole (I)	714	%82.93	Pos Both Neg	Pos	479 24 211	%67.09 %3.36 %29.55	✓
	KOH (3%) String Test	6	%0.70	Pos Neg		5 1	%83.33 %16.67	
	Lactose fermentation	145	%16.84	Both Neg Pos	Neg	5 126 14	%3.45 %86.90 %9.66	✓
	L-Arabinose fermentation	9	%1.05	Neg Pos	Neg	5 4	%55.56 %44.44	✓
→	LDC (Lysine decarboxylase)	230	%26.71	Both Pos Neg	Pos	4 129 97	%1.74 %56.09 %42.17	✓
	Levofloxacin	7	%0.81	S		7	%100.00	
	LIA	231	%26.83	R/A K/A k/k	k/k	3 109 119	%1.30 %47.19 %51.52	✓
	L-Rhamnose fermentation	2	%0.23	Neg Pos	Neg	1 1	%50.00 %50.00	✓

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	MacConkey Agar	294	%34.15	3+ 2+ 1- 1+		188 63 23 20	%63.95 %21.43 %7.82 %6.80	
	Malonate utilization	12	%1.39	Neg	Neg	12	%100.00	✓
	Maltose fermentation	8	%0.93	Pos Neg	Pos	7 1	%87.50 %12.50	✓
	Mannitol Salt Agar	60	%6.97	Both Pos Neg		2 16 42	%3.33 %26.67 %70.00	
	Melibiose fermentation	2	%0.23	Neg Pos		1 1	%50.00 %50.00	
	Meropenem	6	%0.70	R S		2 4	%33.33 %66.67	
➔	Methyl red (MR)	618	%71.78	Both Neg Pos	Pos	14 48 556	%2.27 %7.77 %89.97	✓
	MHA (Mueller Hinton Agar)	48	%5.57	1+ 3+ 2+		2 40 6	%4.17 %83.33 %12.50	
	Motility	668	%77.58	Neg Pos Both	Pos	338 313 17	%50.60 %46.86 %2.54	✓
➔	Motility (25°C)	25	%2.90	Neg Pos		12 13	%48.00 %52.00	
	MSA (Mannitol Salt Agar)	11	%1.28	1+ 1- 2+		1 9 1	%9.09 %81.82 %9.09	
	myo-Inositol fermentation	10	%1.16	Pos Neg	Pos	9 1	%90.00 %10.00	✓
	N2 gas from Nitrate	1	%0.12	Neg		1	%100.00	

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	NA (Nutrient Agar)	10	%1.16	2+ 3+ 1+		1 7 2	%10.00 %70.00 %20.00	
	Nalidixic acid	20	%2.32	R S		3 17	%15.00 %85.00	
	Nitrate reduction	11	%1.28	Pos Neg	Pos	10 1	%90.91 %9.09	✓
	Nitrofurantoin	32	%3.72	S R		31 1	%96.88 %3.13	
	Norfloxacine	3	%0.35	S		3	%100.00	
	Novobiocin	6	%0.70	S R		1 5	%16.67 %83.33	
	Novobiocin Susceptibility Test	14	%1.63	S R		3 11	%21.43 %78.57	
	O/129 Susceptibility Test	1	%0.12	S	S	1	%100.00	✓
	ODC (Ornithine decarboxylase)	102	%11.85	Neg Pos	Pos	13 89	%12.75 %87.25	✓
	O-F Test / Glucose	32	%3.72	Fermenter Oxidizer Nonoxidizer(Nonutilizer)		24 5 3	%75.00 %15.63 %9.38	
	O-F Test / Lactose	9	%1.05	Nonoxidizer(Nonutilizer) Fermenter Oxidizer		5 3 1	%55.56 %33.33 %11.11	
	O-F Test / Maltose	5	%0.58	Fermenter Nonoxidizer(Nonutilizer)		2 3	%40.00 %60.00	
	O-F Test / Mannitol	3	%0.35	Oxidizer Nonoxidizer(Nonutilizer)		1 2	%33.33 %66.67	

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	O-F Test / Xylose	3	%0.35	Nonoxidizer(Nonutilizer)		3	%100.00	
	Ofloxacin	5	%0.58	R S		1 4	%20.00 %80.00	
	ONPG test	250	%29.04	Neg Pos Both	Pos	62 184 4	%24.80 %73.60 %1.60	✓
	Optochin Susceptibility Test	10	%1.16	R		10	%100.00	
	Other	5	%0.58	3+		5	%100.00	
	Oxidase Test	381	%44.25	Neg Pos	Pos	132 249	%34.65 %65.35	✓
	PAD (Phenylalanine deaminase)	96	%11.15	Pos Neg	Neg	2 94	%2.08 %97.92	✓
	Penicillin	9	%1.05	S R		3 6	%33.33 %66.67	
	Pigment 1	20	%2.32	Green Brown Red		6 4 10	%30.00 %20.00 %50.00	
	Pigment 2	10	%1.16	Yellow Orange-Pink		7 3	%70.00 %30.00	
	Pigment 3	4	%0.46	Violet Lavender-Green		3 1	%75.00 %25.00	
	Piperacillin-tazobactam	3	%0.35	R S		1 2	%33.33 %66.67	
	Polymyxin B	1	%0.12	S		1	%100.00	
	Polymyxine B Susceptibility Test	4	%0.46	R S		1 3	%25.00 %75.00	
	PYR Test - Pyrrolidonylarylamidase	2	%0.23	Pos		2	%100.00	

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	Pyruvate Utilization Test	1	%0.12	Pos		1	%100.00	
	Raffinose fermentation	3	%0.35	Pos Neg	Neg	1 2	%33.33 %66.67	✓
→	SBA (Sheep Blood Agar)	643	%74.68	1- 1+ 2+ 3+		10 23 117 493	%1.56 %3.58 %18.20 %76.67	
	Serogrouping or Serotyping Tests	14	%1.63	Yes No		13 1	%92.86 %7.14	
	SF (Selenite-F broth)	53	%6.16	2+ 3+ 1+ 1-		12 20 15 6	%22.64 %37.74 %28.30 %11.32	
	SMAC (Sorbitol-MacConkey agar)	6	%0.70	1+ 2+ 3+		2 1 3	%33.33 %16.67 %50.00	
→	SS (Salmonella-Shigella agar)	150	%17.42	3+ 2+ 1- 1+		79 39 9 23	%52.67 %26.00 %6.00 %15.33	
	String Test (sodium deoxycholate)	1	%0.12	Neg		1	%100.00	
	Sucrose fermentation	34	%3.95	Neg Pos Both	Neg	28 5 1	%82.35 %14.71 %2.94	✓
	Sulfamethoxazole	5	%0.58	S		5	%100.00	
	Swarming colonies	4	%0.46	Neg		4	%100.00	
	SXT Susceptibility Test	17	%1.97	S R		16 1	%94.12 %5.88	

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	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	32	%3.72	1- 1+ 3+ 2+	1-	23 4 3 2	%71.88 %12.50 %9.38 %6.25	✓
	TDA (Tryptophan deaminase)	6	%0.70	Neg		6	%100.00	
	Tetracycline	11	%1.28	S		11	%100.00	
	Thioglycolate broth / Medium	4	%0.46	3+ 2+		3 1	%75.00 %25.00	
	Ticarcillin-clavulanic acid	1	%0.12	S		1	%100.00	
	Tigecycline	1	%0.12	S		1	%100.00	
	Tobramycin	4	%0.46	R S		2 2	%50.00 %50.00	
	Trehalose fermentation	1	%0.12	Pos	Pos	1	%100.00	✓
	Trimethoprim	1	%0.12	S		1	%100.00	
	Trimethoprim-sulfamethoxazole	36	%4.18	R S		2 34	%5.56 %94.44	
	TSA (Trypticase Soy Agar)	5	%0.58	3+ 2+		3 2	%60.00 %40.00	
	TSB (Trypticase Soy Broth)	6	%0.70	1- 1+ 2+ 3+		2 1 1 2	%33.33 %16.67 %16.67 %33.33	
➔	TSI	741	%86.06	K/A H2S+ K/A G+/H2S+ K/A Gas- K/A Gas+ A/A Gas- A/A H2S+ A/A Gas+ K/K	K/A Gas-	4 1 566 29 92 5 20 24	%0.54 %0.13 %76.38 %3.91 %12.42 %0.67 %2.70 %3.24	✓

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
→	Urea hydrolysis / (Agar)	689	%80.02	Neg Pos Both	Neg	655 17 17	%95.07 %2.47 %2.47	✓
	Vancomycin	2	%0.23	R		2	%100.00	
	Vancomycin MIC E test	4	%0.46	R S		2 2	%50.00 %50.00	
	Vancomycin Susceptibility Test	1	%0.12	S		1	%100.00	
→	Voges-Proskauer (VP)	552	%64.11	Both Pos Neg	Neg	4 25 523	%0.72 %4.53 %94.75	✓
	Voges-Proskauer (VP) / (25°C)	29	%3.37	Neg		29	%100.00	
→	XLD (Xylose Lysine Deoxycholate agar)	520	%60.39	2+ 3+ 1- 1+		127 333 20 40	%24.42 %64.04 %3.85 %7.69	
	Yellow Pigment	2	%0.23	Neg		2	%100.00	

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