

برگشت (/IACLD/Panel/Labs/Answers/32165)

دوره چهل و چهارم زمستان 1401

M1 Results

تشخیص میکروارگانیزم مربوط به M2

کد نمونه 1323	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
	Enterococcus spp.	480	%28.05	●
➔	Enterococcus faecalis	441	%25.77	✓
	Streptococci group D (Non-enterococci) / Streptococcus bovis	98	%5.73	
	Staphylococcus saprophyticus	80	%4.68	
	Staphylococcus aureus	77	%4.50	
	Enterococcus faecium	49	%2.86	●
	Streptococci , Non-hemolytic	43	%2.51	
	Streptococci , Beta-hemolytic	42	%2.45	
	Streptococcus spp.	38	%2.22	
	Enterobacter spp.	35	%2.05	
	Not Reported	33	%1.93	
	Escherichia coli	31	%1.81	
	Streptococcus agalactiae (Beta-hemolytic group B)	22	%1.29	
	Staphylococcus epidermidis	20	%1.17	
	Streptococci , Beta-hemolytic Non group A or B	19	%1.11	
	Streptococci , Viridans group	17	%0.99	
	Staphylococci , Coagulase-positive	15	%0.88	
	Providencia rettgeri	11	%0.64	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	<i>Enterobacter cloacae</i>	10	%0.58	
	Staphylococci , Coagulase-negative (CoNS)	9	%0.53	
	<i>Klebsiella</i> spp.	8	%0.47	
	<i>Staphylococcus</i> spp.	8	%0.47	
	<i>Yersinia enterocolitica</i>	8	%0.47	
	<i>Providencia</i> spp.	6	%0.35	
	<i>Citrobacter diversus</i> (koseri)	6	%0.35	
	Streptococci , Alpha-hemolytic	5	%0.29	
	<i>Enterococcus avium</i>	5	%0.29	●
	<i>Staphylococcus haemolyticus</i>	5	%0.29	
	<i>Citrobacter freundii</i>	5	%0.29	
	<i>Streptococcus pyogenes</i> (Beta-hemolytic group A)	5	%0.29	
	<i>Enterobacter aerogenes</i>	5	%0.29	
	<i>Serratia marcescens</i>	5	%0.29	
	<i>Citrobacter</i> spp.	4	%0.23	
	<i>Providencia stuartii</i>	3	%0.18	
	<i>Micrococcus</i> spp.	3	%0.18	
	<i>Proteus mirabilis</i>	3	%0.18	
	<i>Pseudomonas aeruginosa</i>	3	%0.18	
	<i>Hafnia alvei</i>	3	%0.18	
	<i>Shigella</i> spp.	3	%0.18	
	<i>Klebsiella oxytoca</i>	3	%0.18	
	<i>Escherichia</i> spp.	3	%0.18	
	<i>Klebsiella pneumoniae</i> subsp. <i>rhinoscleromatis</i>	2	%0.12	
	<i>Streptococcus pneumoniae</i>	2	%0.12	
	Streptococci , Beta-hemolytic group G	2	%0.12	
	<i>Moraganella morgani</i> biogroup 1	2	%0.12	
	<i>Shigella sonnei</i> (serogroup D)	2	%0.12	
	<i>Klebsiella pneumoniae</i> subsp. <i>ozaenae</i>	2	%0.12	
	<i>Providencia alcalifaciens</i>	2	%0.12	
	<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i>	2	%0.12	
	<i>Yersinia</i> spp.	2	%0.12	

انتخاب شما	باکتری گزارش شده	تعداد تشخیص	درصد تشخیص	تشخیص
	Enteric Group 59	2	%0.12	
	Streptococci , Beta-hemolytic group C	2	%0.12	
	Salmonella, Nontyphoidal serogroup C	2	%0.12	
	Pseudomonas spp.	2	%0.12	
	Yersinia ruckeri	1	%0.06	
	Serratia spp.	1	%0.06	
	Alcaligenes faecalis	1	%0.06	
	Escherichia coli, Enteropathogenic	1	%0.06	
	Listeria monocytogenes	1	%0.06	
	NFGNB - Nonfermenting Gram-Negative Bacilli	1	%0.06	
	Stomatococcus mucilaginosus	1	%0.06	
	Neisseria gonorrhoeae	1	%0.06	
	Streptococcus anginosus group	1	%0.06	
	Salmonella spp.	1	%0.06	
	Acinetobacter spp.	1	%0.06	
	Staphylococcus lugdunensis	1	%0.06	
	Serratia fonticola	1	%0.06	
	Staphylococcus cohnii	1	%0.06	
	No enteric pathogens isolated	1	%0.06	
	Neisseria meningitidis	1	%0.06	

جدول شماره 2

درصد	تعداد	تشخیص	درصد	تعداد	نمونه
26.28	441	تشخیص های درست	1882	1882	نمونه های فرستاده شده
31.82	534	تشخیص های نیمه درست	90.81	1709	جوابهای دریافتی (تعداد موارد ثبت شده)
41.90	703	تشخیص های اشتباه	98.19	1678	جوابهای دارای تشخیص
			1.93	33	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)	31	%1.81	Neg Pos	Pos	8 23	%25.81 %74.19	✓
	Adonitol fermentation	1	%0.06	Neg		1	%100.00	
	Amikacin	45	%2.63	R S		26 19	%57.78 %42.22	
	Amoxicillin	24	%1.40	S R		19 5	%79.17 %20.83	
	Amoxicillin-clavulanic acid	8	%0.47	R S		3 5	%37.50 %62.50	
	Ampicillin	80	%4.68	S R		65 15	%81.25 %18.75	
	Ampicillin Susceptibility Test	27	%1.58	R S		2 25	%7.41 %92.59	
	Ampicillin-sulbactam	1	%0.06	S		1	%100.00	
	Amygdalin	3	%0.18	Pos		3	%100.00	
	Azithromycin	23	%1.34	R S		10 13	%43.48 %56.52	
➔	Bacitracin 0.04 U Susceptibility Test	216	%12.62	R S	R	209 7	%96.76 %3.24	✓
	Bacitracin 10 U Susceptibility Test	61	%3.57	S R		5 56	%8.20 %91.80	
	Bacitracin Susceptibility Test	396	%23.14	R S	R	382 14	%96.46 %3.54	✓
	BGA (Brilliant Green Agar)	52	%3.04	1+ 3+ 2+		2 41 9	%3.85 %78.85 %17.31	
	BHI Agar (Brain Heart Infusion Agar)	39	%2.28	1- 1+ 2+ 3+		2 3 4 30	%5.13 %7.69 %10.26 %76.92	

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	BSA (Bismuth Sulfite Agar)	10	%0.58	1+ 2+ 3+		1 2 7	%10.00 %20.00 %70.00	
➔	CAMP Test	354	%20.69	Neg Pos	Neg	337 17	%95.20 %4.80	✓
	Carbenicillin	1	%0.06	R		1	%100.00	
➔	Catalase Test	1359	%79.43	Pos Neg Both	Neg	255 1071 33	%18.76 %78.81 %2.43	✓
	Cefazolin	26	%1.52	R S		17 9	%65.38 %34.62	
	Cefepime	16	%0.94	R S		12 4	%75.00 %25.00	
	Cefixime	46	%2.69	R S		39 7	%84.78 %15.22	
	Cefotaxime	28	%1.64	S R		16 12	%57.14 %42.86	
	Cefoxitin	12	%0.70	R		12	%100.00	
	Ceftazidime	8	%0.47	R S		6 2	%75.00 %25.00	
	Ceftizoxime	10	%0.58	S R		7 3	%70.00 %30.00	
	Ceftriaxone	38	%2.22	R S		26 12	%68.42 %31.58	
	Cephalexin	12	%0.70	R S		10 2	%83.33 %16.67	
	Cephalothin	11	%0.64	R S		4 7	%36.36 %63.64	
	Cephalothin Susceptibility Test	1	%0.06	R		1	%100.00	

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
→	CHA (Chocolate Agar)	440	%25.72	1- 1+ 3+ 2+		8 31 307 94	%1.82 %7.05 %69.77 %21.36	
	Chloramphenicol	11	%0.64	R S		5 6	%45.45 %54.55	
	CHROMagar Orientation	1	%0.06	3+		1	%100.00	
	Ciprofloxacin	105	%6.14	S R		67 38	%63.81 %36.19	
	Citrate (Simmons) (C)	188	%10.99	Both Neg Pos		2 117 69	%1.06 %62.23 %36.70	
	Clarithromycin	4	%0.23	R S		1 3	%25.00 %75.00	
	Clindamycin	38	%2.22	S R		4 34	%10.53 %89.47	
	Cloxacillin	1	%0.06	R		1	%100.00	
	Coagulase Test / Slide (clumping factor)	150	%8.77	Neg Both Pos		100 3 47	%66.67 %2.00 %31.33	
	Coagulase Test / Tube	253	%14.79	Neg Pos Both		181 70 2	%71.54 %27.67 %0.79	
	Colistin	4	%0.23	R		4	%100.00	
	Colistin Susceptibility Test	1	%0.06	R		1	%100.00	
	Colony on TCBS agar	1	%0.06	Yellow		1	%100.00	
	Colony Size > 0.5 mm at 24hrs	8	%0.47	Neg Pos		1 7	%12.50 %87.50	
	D-Glucose, acid	17	%0.99	Neg Pos		3 14	%17.65 %82.35	

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	D-Glucose, gas	6	%0.35	Neg Pos		3 3	%50.00 %50.00	
	D-Mannitol fermentation	46	%2.69	Neg Pos		12 34	%26.09 %73.91	
	D-Mannose fermentation	5	%0.29	Neg Pos		1 4	%20.00 %80.00	
	DNase (25° / 35° C)	67	%3.92	Pos Neg		15 52	%22.39 %77.61	
	Doxycycline	23	%1.34	R S		14 9	%60.87 %39.13	
	D-Sorbitol fermentation	10	%0.58	Neg Pos		2 8	%20.00 %80.00	
	D-Xylose fermentation	5	%0.29	Neg		5	%100.00	
➔	EMB (Eosin Methylene Blue agar)	1400	%81.82	1- 1+ 2+ 3+		968 234 75 123	%69.14 %16.71 %5.36 %8.79	
	Erythromycin	55	%3.21	S R		25 30	%45.45 %54.55	
	Esculin hydrolysis	201	%11.75	Pos Both Neg	Pos	189 2 10	%94.03 %1.00 %4.98	✓
	Fosfomicin	3	%0.18	R S		2 1	%66.67 %33.33	
	Furazolidone Susceptibility Test	5	%0.29	S R		4 1	%80.00 %20.00	
	GAS / (TSI)	63	%3.68	Neg Pos		54 9	%85.71 %14.29	
	Gelatin hydrolysis (22° / 35° C)	9	%0.53	Pos Neg		6 3	%66.67 %33.33	
	Gentamicin	97	%5.67	S R		51 46	%52.58 %47.42	

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	Germ Tube Test	2	%0.12	Pos		2	%100.00	
	Glycerol fermentation	1	%0.06	Pos		1	%100.00	
	GN broth	1	%0.06	1-		1	%100.00	
→	Gram Stain	1591	%92.99	G+ Bacilli G- Cocci G+ Cocci, in Cha Yeast G- Diplococci G+ Cocci G+, in Cluster G- Cocci, in Cha G+ Coccobacilli G- Coccobacilli G+ Diplococci G- Bacilli G+ Cocci, in Clu	G+ Cocci	29 19 220 1 4 1010 14 6 36 27 98 96 31	%1.82 %1.19 %13.83 %0.06 %0.25 %63.48 %0.88 %0.38 %2.26 %1.70 %6.16 %6.03 %1.95	✓
	Growth at 10°C	5	%0.29	Pos		5	%100.00	
	Growth at 4°C	2	%0.12	Neg		2	%100.00	
	Growth at 42°C	1	%0.06	Pos		1	%100.00	
	Growth at 45°C	8	%0.47	Pos		8	%100.00	
	Growth in 0% NaCl broth/agar	10	%0.58	Neg Pos		1 9	%10.00 %90.00	
	Growth in 1% NaCl broth/agar	3	%0.18	Pos		3	%100.00	
	Growth in 6% NaCl broth/agar	53	%3.10	Both Pos Neg		1 43 9	%1.89 %81.13 %16.98	
→	Growth in 6.5% NaCl broth	668	%39.04	Both Neg Pos	Pos	2 68 598	%0.30 %10.18 %89.52	✓
	Growth in 8% NaCl broth/agar	7	%0.41	Neg Pos		1 6	%14.29 %85.71	
	Growth in Thioglycolate (anaerobic)	1	%0.06	Pos		1	%100.00	

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	H2S / (TSI)	130	%7.60	Neg Pos Both		121 7 2	%93.08 %5.38 %1.54	
	HEA (Hektoen Enteric Agar)	9	%0.53	1- 3+		8 1	%88.89 %11.11	
	Hemolysis (Non)	213	%12.45	Both Pos Neg	Pos	1 82 130	%0.47 %38.50 %61.03	✓
	Hemolysis (Alpha)	86	%5.03	Neg Pos Both		11 72 3	%12.79 %83.72 %3.49	
	Hemolysis (Beta)	182	%10.64	Pos Both Neg		158 4 20	%86.81 %2.20 %10.99	
	Hippurate hydrolysis Test	38	%2.22	Both Neg Pos		1 27 10	%2.63 %71.05 %26.32	
➔	Hydrolysis of Esculin/ Bile Esculin Agar	735	%42.96	Pos Neg	Pos	714 21	%97.14 %2.86	✓
	Imipenem	27	%1.58	S R		13 14	%48.15 %51.85	
	Indole (I)	183	%10.70	Both Pos Neg		5 47 131	%2.73 %25.68 %71.58	
	KOH (3%) String Test	13	%0.76	Neg	Neg	13	%100.00	✓
	Lactose fermentation	31	%1.81	Neg Pos		16 15	%51.61 %48.39	
	LAP Test - Leucine aminopeptidase	10	%0.58	Pos		10	%100.00	
➔	L-Arabinose fermentation	73	%4.27	Neg Pos	Neg	44 29	%60.27 %39.73	✓
	LDC (Lysine decarboxylase)	33	%1.93	Both Pos Neg		2 4 27	%6.06 %12.12 %81.82	

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	Levofloxacin	16	%0.94	R S		3 13	%18.75 %81.25	
	LIA	38	%2.22	R/A K/A K/A H2S+ k/k		1 24 1 12	%2.63 %63.16 %2.63 %31.58	
	Linezolid	4	%0.23	S		4	%100.00	
	MacConkey Agar	401	%23.44	3+ 2+ 1- 1+		25 18 322 36	%6.23 %4.49 %80.30 %8.98	
	Malonate utilization	4	%0.23	Neg Pos		3 1	%75.00 %25.00	
	Maltose fermentation	8	%0.47	Pos		8	%100.00	
	Mannitol Salt Agar	159	%9.29	Pos Neg Both		87 70 2	%54.72 %44.03 %1.26	
	Melibiose fermentation	1	%0.06	Pos		1	%100.00	
	Meropenem	5	%0.29	R		5	%100.00	
	Methicillin	1	%0.06	R		1	%100.00	
	Methyl red (MR)	142	%8.30	Pos Neg		122 20	%85.92 %14.08	
	MHA (Mueller Hinton Agar)	94	%5.49	1+ 3+ 2+		12 52 30	%12.77 %55.32 %31.91	
	Motility	238	%13.91	Neg Pos Both		152 81 5	%63.87 %34.03 %2.10	
	Motility (25°C)	11	%0.64	Neg Pos		8 3	%72.73 %27.27	
	MSA (Mannitol Salt Agar)	22	%1.29	1+ 1- 3+ 2+		4 10 3 5	%18.18 %45.45 %13.64 %22.73	

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	myo-Inositol fermentation	3	%0.18	Pos		3	%100.00	
	NA (Nutrient Agar)	21	%1.23	2+ 3+ 1+		10 9 2	%47.62 %42.86 %9.52	
	Nalidixic acid	35	%2.05	R S		27 8	%77.14 %22.86	
	NB (Nutrient Broth)	7	%0.41	2+ 3+		6 1	%85.71 %14.29	
	Nitrate reduction	2	%0.12	Pos		2	%100.00	
	Nitrofurantoin	120	%7.01	S R		106 14	%88.33 %11.67	
	Norfloxacin	13	%0.76	S R		7 6	%53.85 %46.15	
	Novobiocin	128	%7.48	S R		29 99	%22.66 %77.34	
	Novobiocin Susceptibility Test	175	%10.23	R S		142 33	%81.14 %18.86	
	O/129 Susceptibility Test	2	%0.12	R S		1 1	%50.00 %50.00	
	ODC (Ornithine decarboxylase)	18	%1.05	Neg Pos Both		13 3 2	%72.22 %16.67 %11.11	
	O-F Test / Glucose	11	%0.64	Fermenter Oxidizer Nonoxidizer(Nonutilizer)		9 1 1	%81.82 %9.09 %9.09	
	O-F Test / Lactose	4	%0.23	Nonoxidizer(Nonutilizer) Fermenter		1 3	%25.00 %75.00	
	O-F Test / Maltose	3	%0.18	Fermenter		3	%100.00	
	O-F Test / Mannitol	5	%0.29	Nonoxidizer(Nonutilizer) Fermenter Oxidizer		1 3 1	%20.00 %60.00 %20.00	

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	O-F Test / Xylose	1	%0.06	Nonoxidizer(Nonutilizer)		1	%100.00	
	Ofloxacin	15	%0.88	R S		7 8	%46.67 %53.33	
	ONPG test	45	%2.63	Neg Pos Both		36 8 1	%80.00 %17.78 %2.22	
→	Optochin Susceptibility Test	408	%23.85	S R	R	3 405	%0.74 %99.26	✓
	Other	21	%1.23	2+ 3+ 1+		7 11 3	%33.33 %52.38 %14.29	
	Oxacillin	13	%0.76	R S		12 1	%92.31 %7.69	
	Oxidase Test	328	%19.17	Neg Pos		297 31	%90.55 %9.45	
	PAD (Phenylalanine deaminase)	11	%0.64	Pos Neg		2 9	%18.18 %81.82	
	Penicillin	98	%5.73	S R		66 32	%67.35 %32.65	
	Pigment 1	18	%1.05	Green Brown Red		9 4 5	%50.00 %22.22 %27.78	
	Pigment 2	12	%0.70	Yellow Yellow-Green Orange-Pink		9 2 1	%75.00 %16.67 %8.33	
	Pigment 3	4	%0.23	Violet Lavender-Green Purple		2 1 1	%50.00 %25.00 %25.00	
	Piperacillin	8	%0.47	S		8	%100.00	
	Piperacillin-tazobactam	1	%0.06	R		1	%100.00	
	Polymyxin B	3	%0.18	S R		1 2	%33.33 %66.67	

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	Polymyxine B Susceptibility Test	8	%0.47	R		8	%100.00	
	PYR Test - Pyrrolidonylarylamidase	75	%4.38	Pos Neg	Pos	67 8	%89.33 %10.67	✓
	Pyruvate Utilization Test	20	%1.17	Neg Pos		3 17	%15.00 %85.00	
	Raffinose fermentation	12	%0.70	Pos Neg		8 4	%66.67 %33.33	
	Rifampin	4	%0.23	R S		2 2	%50.00 %50.00	
	Saboraoud Dextros Agar (SDA)	1	%0.06	1-		1	%100.00	
	Salicin fermentation	1	%0.06	Pos		1	%100.00	
➔	SBA (Sheep Blood Agar)	1499	%87.61	1+ 1- 3+ 2+		80 4 1128 287	%5.34 %0.27 %75.25 %19.15	
	SMAC (Sorbitol-MacConkey agar)	3	%0.18	1-		3	%100.00	
	Sorbose fermentation/acid production	3	%0.18	Pos Neg		2 1	%66.67 %33.33	
	SS (Salmonella-Shigella agar)	7	%0.41	3+ 1-		3 4	%42.86 %57.14	
	String Test (sodium deoxycholate)	1	%0.06	Pos		1	%100.00	
	Sucrose fermentation	15	%0.88	Neg Pos Both		2 12 1	%13.33 %80.00 %6.67	
	Sulfamethoxazole	6	%0.35	S R		5 1	%83.33 %16.67	
	Swarming colonies	1	%0.06	Pos		1	%100.00	
	SXT Susceptibility Test	258	%15.08	S R	R	108 150	%41.86 %58.14	✓

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	TCBS (Thiosulfate Citrate Bile Salts Sucrose agar)	21	%1.23	1- 1+ 3+ 2+		12 3 3 3	%57.14 %14.29 %14.29 %14.29	
	TDA (Tryptophan deaminase)	6	%0.35	Neg Pos		1 5	%16.67 %83.33	
	Tellurite Tolerance Test	1	%0.06	Pos		1	%100.00	
	Tetracycline	55	%3.21	S R		11 44	%20.00 %80.00	
	Thioglycolate broth / Medium	9	%0.53	2+ 3+		2 7	%22.22 %77.78	
	Tigecycline	2	%0.12	S		2	%100.00	
	Tobramycin	2	%0.12	R		2	%100.00	
	Trehalose fermentation	2	%0.12	Pos		2	%100.00	
	Trimethoprim	4	%0.23	R S		2 2	%50.00 %50.00	
	Trimethoprim-sulfamethoxazole	161	%9.41	R S		50 111	%31.06 %68.94	
	TSA (Trypticase Soy Agar)	4	%0.23	3+		4	%100.00	
	TSB (Trypticase Soy Broth)	18	%1.05	1- 1+ 2+ 3+		1 3 4 10	%5.56 %16.67 %22.22 %55.56	
	TSI	216	%12.62	K/A H2S+ K/A G+/H2S+ K/A Gas- K/A Gas+ A/A Gas- A/A H2S+ K/K A/A Gas+		4 1 26 1 146 5 7 26	%1.85 %0.46 %12.04 %0.46 %67.59 %2.31 %3.24 %12.04	
	Urea hydrolysis / (Agar)	202	%11.81	Neg Pos Both		143 58 1	%70.79 %28.71 %0.50	

پاسخ شما	نام تست	تعداد استفاده	درصد استفاده	نتایج	نتیجه صحیح	تعداد گزارش	درصد گزارش	صحیح
	Vancomycin	84	%4.91	R S	S	35 49	%41.67 %58.33	✓
	Vancomycin MIC E test	39	%2.28	R S		20 19	%51.28 %48.72	
	Vancomycin Susceptibility Test	103	%6.02	R S		55 48	%53.40 %46.60	
	Voges-Proskauer (VP)	144	%8.42	Both Pos Neg		2 39 103	%1.39 %27.08 %71.53	
	Voges-Proskauer (VP) / (25°C)	8	%0.47	Neg Pos		5 3	%62.50 %37.50	
	XLD (Xylose Lysine Deoxycholate agar)	63	%3.68	2+ 3+ 1- 1+		2 1 56 4	%3.17 %1.59 %88.89 %6.35	
	Yellow Pigment	5	%0.29	Neg Pos		2 3	%40.00 %60.00	

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