

API 20 E

	O N P G	A D H	L D C	O D C	C I T	H 2 S	U R E	T D A	I N D	V P	G E L	G L U	M A N	I N O	S O R	R H A	S A C	M E L	A M Y	A R A	O X	N O 2	N 2
Escherichia coli 1	95	2	77	70	0	3	1	0	94	0	0	100	99	2	90	87	41	67	12	83	0	100	0
Escherichia coli 2	47	8	45	30	0	1	1	0	95	0	0	97	92	1	42	35	1	34	7	92	0	98	0
Escherichia adecarboxylata	100	0	0	0	0	0	15	0	95	0	30	100	100	0	0	100	55	100	99	100	0	100	0
Escherichia hermannii	100	0	6	100	5	0	0	0	100	0	0	100	100	0	0	97	44	0	97	100	0	100	0
Escherichia vulneris	100	64	42	0	0	0	1	0	0	0	0	100	100	0	1	95	7	78	78	100	0	100	0
Shigella sp 1	50	0	0	0	0	0	0	0	44	0	0	99	3	0	29	32	0	0	0	26	0	100	0
Shigella sp 2	7	1	0	5	0	0	0	0	32	0	0	99	97	0	52	3	1	21	0	75	0	100	0
Shigella sonnei	96	0	0	97	0	0	0	0	0	0	0	100	99	0	1	75	0	0	0	97	0	100	0
Edwardsiella tarda	0	0	100	100	0	94	0	0	100	0	0	100	0	0	0	0	0	0	0	1	0	100	0
Edwardsiella hoshinae	0	0	100	100	0	94	0	0	100	0	0	100	100	0	0	0	100	0	0	75	0	100	0
Edwardsiella ictaluri	31	0	100	31	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0
Salmonella cholerae suis	0	22	97	97	4	65	0	0	0	0	0	100	99	0	85	95	0	20	0	0	0	100	0
Salmonella typhi	0	2	99	0	0	8	0	0	0	0	0	100	99	0	100	0	0	94	0	0	0	100	0
Salmonella spp	3	69	95	95	75	85	0	0	3	0	0	100	98	33	93	92	2	78	1	94	0	100	0
Salmonella para A	0	0	0	100	0	5	0	0	0	0	0	100	99	0	99	99	0	96	0	99	0	100	0
Salmonella typhisuis	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	5	0	27	0	94	0	100	0
Salmonella gallinarum	0	0	92	0	0	8	0	0	0	0	0	100	99	0	0	57	0	0	0	99	0	100	0
Salmonella pullorum	0	0	91	100	0	38	0	0	0	0	0	100	99	0	11	97	0	5	0	61	0	100	0
Salmonella arizonae	98	48	96	97	50	96	0	0	0	0	0	100	99	0	99	96	0	64	0	99	0	100	0
Citrobacter freundii	93	22	0	32	62	65	3	0	6	0	0	100	98	10	91	84	66	66	50	96	0	98	0
Citrobacter diversus/amalonat.	97	50	0	93	87	0	2	0	92	0	0	100	99	2	92	94	22	9	96	95	0	100	0
Klebsiella pneumoniae	99	1	74	0	95	0	63	0	0	92	1	99	99	96	99	97	99	99	99	99	0	100	0
Klebsiella ozaenae	90	11	32	1	36	0	6	0	0	0	0	97	92	61	44	66	12	83	90	67	0	92	0

	O N P G	A D H	L D C	O D C	C I T	H 2 S	U R E	T D A	I N D	V P	G E L	G L U	M A N	I N O	S O R	R H A	S A C	M E L	A M Y	A R A	O X	N O	N 2
<i>Klebsiella rhinoscleromatis</i>	0	0	0	0	0	0	0	0	0	0	0	96	99	83	64	39	39	18	92	1	0	100	0
<i>Klebsiella oxytoca</i> 1	99	0	86	0	84	0	60	0	100	91	1	99	99	96	99	96	99	96	99	96	0	100	0
<i>Klebsiella oxytoca</i> 2	100	0	67	100	99	0	99	0	99	60	0	99	99	99	83	99	99	99	99	99	0	100	0
<i>Enterobacter aerogenes</i>	99	0	98	99	85	0	2	0	0	91	3	99	99	92	99	98	96	99	99	99	0	100	0
<i>Enterobacter amnigenus</i>	100	95	0	100	99	0	50	0	0	89	0	100	100	0	46	96	64	100	89	100	0	100	0
<i>Enterobacter cloacae</i>	99	87	1	96	94	0	1	0	0	94	1	100	99	18	97	85	97	96	99	99	0	100	0
<i>Enterobacter gergoviae</i>	100	0	26	100	85	0	98	0	0	97	0	100	98	12	0	100	98	100	99	100	0	100	0
<i>Enterobacter intermedium</i>	100	0	0	93	95	0	0	0	0	100	0	100	95	0	100	100	46	95	95	95	0	100	0
<i>Enterobacter sakazakii</i>	100	98	0	85	85	0	1	0	1	85	1	100	100	72	0	99	99	99	89	99	0	100	0
<i>Enterobacter agglomerans</i> 1	98	1	0	1	8	0	1	2	1	8	2	99	97	90	8	95	99	6	67	50	0	85	0
<i>Enterobacter agglomerans</i> 2	99	1	0	1	61	0	2	20	99	15	8	97	99	23	64	93	46	92	93	95	0	85	0
<i>Enterobacter agglomerans</i> 3	88	15	0	15	91	0	3	8	1	92	15	99	99	25	41	96	75	96	96	96	0	85	0
<i>Enterobacter agglomerans</i> 4	94	4	0	0	6	0	1	6	1	48	1	99	96	5	9	60	90	9	88	78	0	85	0
<i>Erwinia amylo./rubrifac.</i>	11	0	0	0	0	0	0	0	0	17	69	99	63	0	67	0	98	2	0	82	0	85	0
<i>Hafnia alvei</i>	71	1	100	97	13	0	4	0	0	15	0	99	95	0	0	71	0	4	11	90	0	100	0
<i>Rahnella aquatilis</i>	100	0	0	0	66	0	0	4	0	100	0	100	100	0	96	96	100	88	96	92	0	100	0
<i>Cedecea</i> spp	100	86	0	14	86	0	0	0	0	100	0	100	100	71	29	14	29	43	100	30	0	99	0
<i>Ewingella americana</i>	90	0	0	0	99	0	0	0	0	99	0	100	100	0	0	5	0	0	90	1	0	100	0
<i>Serratia liquefaciens</i>	98	0	87	99	85	0	5	0	0	52	60	100	99	75	98	16	99	75	99	98	0	100	0
<i>Serratia marcescens</i>	94	2	98	95	97	0	28	0	1	60	85	100	99	71	91	0	98	68	97	19	0	95	0
<i>Serratia odorifera</i> 1	95	0	97	84	87	0	0	0	99	40	90	100	99	99	99	99	100	99	99	95	0	99	0
<i>Serratia odorifera</i> 2	95	0	97	2	87	0	0	0	99	65	90	100	99	99	99	99	0	99	99	95	0	99	0
<i>Serratia plymuthica</i>	99	0	1	0	57	0	0	0	0	74	50	100	92	92	52	1	100	87	87	98	0	99	0
<i>Serratia rubidaea</i>	99	0	73	0	83	0	4	0	0	69	76	98	96	58	1	3	84	82	94	99	0	100	0
<i>Serratia fonticola</i>	100	0	85	99	60	0	0	0	0	0	0	100	100	90	100	96	12	100	100	95	0	99	0
<i>Buttiauxella agrestis</i>	100	0	3	91	66	0	0	0	0	0	0	100	100	0	3	100	0	94	100	100	0	100	0
<i>Kluyvera</i> spp	92	0	77	90	93	0	0	0	83	0	0	100	92	0	41	95	66	87	92	90	0	95	0

	O N P G	A D H	L D C	O D C	C I T	H 2 S	U R E	T D A	I N D	V P	G E L	G L U	M A N	I N O	S O R	R H A	S A C	M E L	A M Y	A R A	O X	N O 2	N 2
<i>Proteus mirabilis</i>	1	1	1	98	57	83	99	98	2	3	63	96	1	0	0	0	1	1	1	1	0	93	0
<i>Proteus penneri</i>	0	0	0	0	1	15	100	100	0	0	15	100	0	0	0	0	100	0	1	0	0	99	0
<i>Proteus vulgaris</i>	0	0	0	0	31	83	98	99	94	0	52	97	1	1	0	4	89	0	65	1	0	100	0
<i>Morganella morganii</i>	1	1	5	98	2	0	99	91	97	0	0	97	1	0	0	0	1	0	0	1	0	88	0
<i>Providencia alcalifaciens</i>	0	0	0	0	94	0	0	100	99	0	0	99	2	2	0	0	8	0	0	2	0	100	0
<i>Providencia rettgeri</i>	1	1	0	0	70	0	98	99	90	0	0	99	82	78	2	42	34	0	11	1	0	98	0
<i>Providencia stuartii</i>	1	0	0	0	89	0	30	90	97	0	0	99	0	84	0	0	16	0	0	3	0	100	0
<i>Tatumella ptuseos</i>	0	0	0	0	10	0	0	72	0	5	0	99	0	0	0	0	80	27	9	1	0	90	0
<i>Yersinia enterocolitica</i>	81	0	0	90	0	0	93	0	66	1	0	99	99	25	98	1	100	1	92	69	0	98	0
<i>Yersinia fredericksonii</i>	95	0	0	100	0	0	98	0	99	1	0	100	99	11	95	100	100	0	97	57	0	98	0
<i>Yersinia intermedia</i>	95	0	0	100	0	0	97	0	97	2	0	100	99	63	95	99	99	100	98	52	0	98	0
<i>Yersinia kristensenii</i>	87	0	0	87	0	0	100	0	99	0	0	99	99	62	99	0	0	0	99	87	0	98	0
<i>Yersinia pestis</i>	68	0	0	0	0	0	0	0	0	8	0	99	97	0	71	0	0	0	11	0	0	47	0
<i>Yersinia pseudotuberculosis</i>	77	0	0	0	13	0	96	0	0	0	0	98	97	0	0	77	0	70	22	29	0	95	0
<i>Yersinia ruckeri</i>	73	0	93	95	0	0	0	0	0	1	0	83	95	0	3	0	0	0	0	0	0	50	0
<i>Aeromonas hydrophila</i>	96	95	50	0	50	0	0	0	85	66	94	98	96	0	6	10	82	5	61	61	99	98	0
<i>Aeromonas salmonicida</i>	5	84	23	0	0	0	0	0	0	5	99	99	93	0	5	0	7	0	0	0	100	98	0
<i>Plesiomonas shigelloides</i>	95	95	100	100	0	0	0	0	100	0	0	100	0	100	0	0	0	0	0	0	100	99	0
<i>Vibrio alginolyticus</i>	0	0	97	62	60	0	2	0	100	10	65	100	100	0	0	0	100	0	5	2	100	47	0
<i>Vibrio cholerae</i>	94	1	94	96	62	0	0	0	100	40	87	98	98	0	0	0	94	0	5	0	100	96	0
<i>Vibrio fluvialis</i>	99	90	0	0	15	0	0	0	75	0	20	100	100	0	5	5	99	0	50	99	100	100	0
<i>Vibrio metschnikovii</i>	20	85	88	0	30	0	0	0	50	63	100	10	100	30	30	5	100	0	0	0	0	0	0
<i>Vibrio mimicus</i>	99	1	85	90	65	0	0	0	90	3	95	99	95	0	0	0	0	0	1	0	100	95	0
<i>Vibrio parahaemolyticus</i>	0	0	100	89	63	0	8	0	100	5	63	100	96	0	0	3	1	0	12	36	100	63	0
<i>Vibrio vulnificus</i>	100	0	68	90	81	0	0	0	99	18	100	100	36	0	0	0	0	0	90	1	99	54	0
<i>Pasteurella aerogenes</i>	70	0	0	95	0	0	95	0	0	0	0	98	0	90	0	10	99	0	0	80	85	100	0
<i>Pasteurella multocida</i>	4	0	0	12	0	0	0	0	88	0	0	29	74	0	68	0	77	0	0	0	81	52	0

	O N P G	A D H	L D C	O D C	C I T	H 2 S	U R E	T D A	I N D	V P	G E L	G L U	M A N	I N O	S O R	R H A	S A C	M E L	A M Y	A R A	O X	N O 2	N 2
<b>Pasteurella spp</b>	39	0	0	0	0	0	19	0	6	7	3	13	0	0	0	0	3	0	0	1	89	59	0
<b>Chromobacterium violaceum</b>	0	98	0	0	59	0	0	0	19	0	92	96	0	0	0	0	11	0	0	0	95	75	0
<b>Pseudomonas aeruginosa</b>	0	87	0	0	92	0	35	0	0	2	75	57	0	0	0	0	1	8	0	13	97	12	59
<b>Pseudomonas fluoresc./putida</b>	0	79	0	0	68	0	3	0	0	18	27	41	0	0	0	2	0	19	0	11	97	26	0
<b>Pseudomonas cepacia</b>	58	0	32	16	72	0	1	0	0	4	46	65	3	1	1	0	11	0	24	14	90	40	0
<b>Pseudomonas maltophilia</b>	60	0	48	0	76	0	0	0	0	0	89	1	0	0	0	0	0	0	0	0	4	26	0
<b>Pseudomonas pseudomallei</b>	0	72	0	0	18	0	0	0	0	1	91	95	79	75	79	0	72	0	64	18	100	0	92
<b>Pseudomonas paucimobilis</b>	75	0	0	0	35	0	5	0	0	31	7	5	0	0	0	2	18	0	3	5	50	0	0
<b>Pseudomonas putrefaciens</b>	0	0	0	80	83	90	0	0	0	6	93	6	0	0	0	0	9	0	0	0	100	98	0
<b>Pseudomonas spp</b>	1	4	0	0	54	0	2	0	0	18	23	7	0	0	0	1	0	4	0	8	98	48	35
<b>CDC group V E-1</b>	66	59	0	0	94	0	0	0	0	43	13	86	0	13	0	16	4	16	2	78	0	30	0
<b>CDC group V E-2</b>	0	0	0	0	87	0	0	0	0	60	6	45	0	15	0	0	0	3	0	81	0	7	0
<b>Acinetobacter calco. var. anit.</b>	0	0	0	0	54	0	0	0	0	14	12	87	0	0	0	0	1	88	0	79	0	3	0
<b>Acinetobacter calco. var. lwoffii</b>	0	0	0	0	7	0	2	0	0	11	3	0	0	0	0	0	0	0	0	0	0	7	0
<b>Moraxella spp</b>	0	0	0	0	5	0	11	0	0	3	8	0	0	0	0	0	0	0	0	0	100	9	0
<b>Flavobacterium meningo.</b>	70	0	0	0	18	0	0	0	81	0	89	0	0	0	0	0	0	0	0	0	100	6	0
<b>Flavobacterium odoratum</b>	0	0	0	0	43	0	36	0	0	0	63	0	0	0	0	0	0	0	0	0	100	0	0
<b>Flavobacterium multivorum</b>	96	0	0	0	30	0	92	0	0	75	10	46	0	0	0	0	25	0	7	17	96	0	0
<b>CDC group II B</b>	20	0	0	0	12	0	92	0	77	0	95	0	0	0	0	0	0	0	0	0	100	20	0
<b>CDC group II F</b>	0	0	0	0	8	0	0	0	71	0	88	0	0	0	0	0	0	0	0	0	99	0	0
<b>CDC group II J</b>	0	0	0	0	2	0	95	0	50	0	15	0	0	0	0	0	0	0	0	0	100	0	0
<b>Bordetella/Alcalig. Spp</b>	0	0	0	0	60	0	59	2	0	28	4	0	0	0	0	0	0	0	0	0	95	62	0
<b>Achromobacter spp</b>	5	0	0	0	57	0	31	1	0	6	1	0	1	1	1	10	3	0	4	0	100	42	60