









Organism	Medium	Incubation				
Group 1:Non fastidious bacteria Enterobacteriacae Aeromonas salmonicida (nonpsychrophilic strains) Aeromonads Pseudomonas spp. Plesiomonas shigelloides Shewanella spp. Vibrionaceae and related bacteria (non obligate balophilic straine)	САМНВ	22°C for 24-28 hours and/or 44 -48 hours, or 28°C for 24-28 hours				
Group 2: Vibrionaceae and Photobacteriaceae (obligate h	alophilic strains)					
Group 3: Gliding bacteria						
Flavobacterium columnare	Diluted CAMHB (1:7)	28°C (24-28 hours and/or 44 -48 hours				
Flavobacterium psychrophilum Flavbacterium branchiophilum	Diluted CAMHB (1:7)	15°C (44-48 hours and/or 68 -72 hours				
	Recommended supplementation cannot be made but may include cations, NaCl, or horse or fetal calf serum.					
Group 4: Streptococci Lactococcus spp., Vagococcus salmoninarum, Streptococcus	spp., Carnobacterium maltarom	aticum, and other streptococci				
Group 5: Other fastidious bacteria Psychrophilic Aeromonas salmonicida strains, Vibrio salmon salmoninarum, Mycobacterium spp. and Nocardia serie	icida, Mortella viscosa, Tenacibo blae.	aculum maritimum, Renibacterium				
arwish et al., 2008 – broth microdi	ution of <i>F. column</i>	are with 1:5 CAMHB (4				























22648			Erythromycin	Flumequine	Florfenicol	Gentamicin	Oxytetracycline	Oxolinic acid	Sulfadimethoxine / ormetoprim	Sulfamethoxazole / trimethoprim
22040	36	0.008	0.12	0.06	0.5	1	0.06	0.12	10/1	4 75/0 25
22650	64	0.004	0.25	0.06	1	1	0.06	0.12	19/1	4 75/0 25
22655	45	0.06	8	2	>16	>8	32	1	19/1	4 75/0 25
22683	28	0.00	0.25	0.06	1	0.5	0.12	0.12	19/1	9 5/0 5
33677	25	0.015	0.25	0.06	2	0.5	0.12	0.12	9 5/0 5	4 75/0 25
33681	53	0.008	0.12	0.06	0.5	0.5	0.06	0.12	9 5/0 5	4 75/0 25
33970	13	0.008	0.25	<0.004	1	1	0.06	0.12	9.5/0.5	4 75/0 25
33971	10	0.008	0.12	0.06	1	0.25	0.06	0.12	2 38/0 12	0.08/0.004
36413	30	2	64	8	>16	0.25	0.25	>4	152/8	38/2
36416	16	2	64	4	16	>8	2	2	>152/8	76/4
36417	25	0.008	0.25	0.06	1	1	4	0.12	9 5/0 5	19/1
36422	52	0.015	0.25	0.12	2	1	0.12	0.12	9 5/0 5	4 75/0 25
36423	30	0.015	1	0.12	2	1	0.12	0.12	19/1	9.5/0.5
36425	47	0.008	1	0.06	2	1	0.12	0.12	19/1	9.5/0.5
E. coli,	ATCC 25922	0.002 - 0.004	8 - 16	0.06 - 0.25	4 - 8	0.25 - 0.5	0.5 - 1	0.06 - 0.12	4.75 / 0.25	0.59/0.03 - 1.19/0.0
A salmonicida	ATCC 33658	0.008	2 - 4	0.03 - 0.06	1	0 12 - 0 25	0.25 0.5	0.015	2 28/0 12	0.59/0.03 1.19/0.0

		A	<b>F.</b> β	osy	ch	rop	hilu	m		
Isolate	Colony count	Enrofloxacin	Erythromycin	Flumequine	Florfenicol	Gentamicin	Oxytetracycline	Oxolinic acid	Sulfadimethoxine / ormetoprim	Sulfamethoxazole / trimethoprim
36391 36392 36395 36396 36397 36398 36400 36401 36403 36404 36408 36409 36410 36411 36429 36430	5 7 21 34 26 3 51 3 17 17 17 33 66 120 79 81	0.004 0.03 0.06 0.004 0.004 0.004 0.008 0.12 0.008 0.008 0.008 0.008 1 0.25 0.015 0.008	0.5 0.5 2 1 1 0.5 0.5 0.5 0.5 1 1 1 1 2 2	0.03 0.03 8 0.5 0.03 0.03 0.06 2 0.06 0.06 0.06 8 8 0.06 0.06	0.25 0.5 1 1 0.5 1 0.5 1 0.5 1 1 1 1 1 1 1	0.06 0.25 0.5 0.25 0.12 0.12 0.5 0.6 0.12 0.25 0.5 0.5 0.5 0.5 0.25 0.25	$\begin{array}{c} 0.03 \\ 1 \\ 0.06 \\ 0.06 \\ 4 \\ \leq 0.015 \\ 16 \\ 16 \\ 0.06 \\ 8 \\ 4 \\ 0.06 \\ 0.06 \\ 0.06 \end{array}$	0.06 0.06 0.12 2 0.06 0.25 1 0.12 0.25 0.12 0.12 0.12 >4 4 0.12 0.12	1,190,06 2,38/0,12 4,75/0,25 9,5/0,5 1,19/0,06 4,75/0,25 2,38/0,12 9,5/0,5 9,5/0,5 9,5/0,5 4,75/0,25 38/2 4,75/0,25 1,19/0,06	0 59/0 03 0 59/0 03 2 38/0 12 2 38/0 12 2 38/0 12 2 38/0 12 2 38/0 12 0 59/0 06 1 19/0 06 1 59/0 03 0 08/0 03 0 08/0 004
E. col A. salmonicida	i, ATCC 25922 a, ATCC 33658	≤0.001 0.008	4	0.06 - 0.12 0.03	16 0.5 - 1	0.06 - 0.25 0.12 - 0.25	0.5	0.06	9.5/0.5 - 4.75/0.25 2.38/0.12	1.19/0.06 1.19/0.06





		Q	C s	tabi	lity			
	Colony count	Enrofloxacin (0.001-2mg/mL)	Erythromycin (0.06-128mg/mL)	Flumequine (0.06-128mg/mL)	Florfenicol (0.008-16mg/mL)	Gentamicin (0.004-8mg/mL)	Oxytetracycline (0.015-32 mg/mL)	Oxolinic acid (0.002-4mg/mL
5th pass	24	≤0.001 0.002 ≤0.001 ≤0.001 ≤0.001	4 4 4 4	0.12 0.12 0.12 0.12 0.12 0.12	16 16 16 16	0.06 0.12 0.12 0.12 0.12 0.12	0.5 1 0.5 0.5 0.5	0.06 0.06 0.12 0.06 0.06
10th pass	21	≤0.001 ≤0.001 ≤0.001	4 4 2	0.12 0.12 0.12	16 16 16	0.12 0.12 0.12	0.5 0.5 0.5	0.06 0.06 0.06
15th pass	10	≤0.001 ≤0.001 ≤0.001	2 4 4	0.06 0.06 0.06	16 16 16	0.12 0.06 0.06	0.5 0.5 0.5	0.06 0.06 0.06
	Colony count	Enrofloxacin (0.001-2mg/mL)	Erythromycin (0.06-128mg/mL)	Flumequine (0.06-128mg/mL)	Florfenicol (0.008-16mg/mL)	Gentamicin (0.004-8mg/mL)	Oxytetracycline (0.015-32 mg/mL)	Oxolinic acid (0.002-4mg/mL)
5th pass	22	0.008 0.008 0.008 0.015	4 4 4 4	0.06 0.06 0.06 0.06	1 1 1	0.5 0.5 0.5 0.12	0.5 0.5 0.5 0.25	0.03 0.03 0.03 0.03
10th pass	14	0.008 0.008 0.008 0.008 0.008	4 4 4	0.03 0.03 0.03 0.03 0.03		0.25 0.25 0.12 0.12 0.25	0.25 0.25 0.25 0.25 0.25	0.015 0.015 0.015 0.015
15th pass	38	0.008 0.008 0.008	4 4 4	0.03 0.03 0.03	1 1 1	0.25 0.25 0.12	0.25 0.25 0.25	0.015 0.015 0.015
	5th pass 10th pass 15th pass 5th pass 10th pass 15th pass	Colony count   5th pass 24   10th pass 21   15th pass 10   2th pass 10   5th pass 22   10th pass 14   15th pass 23   10th pass 23   10th pass 24	Colony     Enrofloxacin (0.001-2mg/mL)       5th pass     2.4     \$0.001 \$0.001 \$0.001 \$0.001 \$0.001 \$0.001       10th pass     2.1     \$0.001 \$0.001 \$0.001       15th pass     10     \$0.001 \$0.001       15th pass     2.1     \$0.001 \$0.001       10th pass     10     \$0.001 \$0.001       10th pass     10     \$0.001 \$0.001       5th pass     2.2     \$0.008 \$0.008 \$0.008       10th pass     14     \$0.008 \$0.008       15th pass     3.8     \$0.008 \$0.008	Colony court     Enrofloxacin (0.001-zmg/mL)     Erythromycin (0.001-zmg/mL)       5th pass     24     0.002 0.001     4 (0.001-zmg/mL)       5th pass     24     0.001 0.001     4 (0.001-zmg/mL)       10th pass     21     50.001 0.001     4 (0.001       10th pass     21     50.001 0.001     4 (0.001       15th pass     10     20.001 0.001     4 (0.001-zmg/mL)       5th pass     22     0.008 0.008     4 (0.001-zmg/mL)       5th pass     22     0.008 0.008     4 (0.008       10th pass     14     0.008 0.008     4 (0.008       10th pass     14     0.008 0.008     4 (0.008       15th pass     38     0.008     4 (0.008	Colony court     Enrofloxacin (0.001-2mg/mL)     Erythromycin (0.06-12mg/mL)     Fumequine (0.06-12mg/mL)       5th pass     24     50.001 \$0.001     4     0.12 \$0.001     0.06-12mg/mL)       5th pass     24     50.001 \$0.001     4     0.12 \$0.001     4       10th pass     21     50.001 \$0.001     4     0.12 \$0.001     4       10th pass     21     50.001 \$0.001     4     0.12 \$0.001     4       10th pass     10     30.001     4     0.12 \$0.001     4       5th pass     10     50.001     4     0.12 \$0.001     4       5th pass     10     50.001     4     0.06 \$0.001     4       5th pass     10     50.001     4     0.06 \$0.001     4       5th pass     10     50.001     4     0.06 \$0.005     4       5th pass     22     0.008 \$0.008     4     0.008 \$4     0.008 \$4     0.008 \$4       5th pass     14     0.008 \$4     0.03 \$4     0.03 \$4     0.03 \$4     0.03 \$4     0.03 \$4     0.03 \$	Colony count     Enrofloxacin (0.001-zmg/mL)     Erythromycin (0.001-zmg/mL)     Fumequine (0.001-zmg/mL)     Forfenicol (0.005-128mg/mL)       5th pass     24 $\frac{0.0001}{30001}$ 4     0.12 4     18 0.12 4       5th pass     24 $\frac{0.0001}{30001}$ 4     0.12 4     18 0.12 18 30001       10th pass     21 $\frac{30001}{30001}$ 4     0.12 4     18 0.12 18 30001       10th pass     21 $\frac{30001}{30001}$ 4     0.12 4     18 0.06       10th pass     10 $\frac{30001}{30011}$ 4     0.12 4     18 0.06       10th pass     10 $\frac{30001}{30011}$ 2     0.06 18 0.06     18 0.06       5th pass     20 $\frac{0.008}{0.008}$ 4     0.06 18 0.06     11 0.006       5th pass     22 $\frac{0.008}{0.008}$ 4     0.06 1 0.006     1 0.006       10th pass     14 $\frac{0.008}{0.008}$ 4     0.06 1 0.003     1 0.003       10th pass     14 $\frac{0.008}{0.008}$ 4     0.03 1 0.008     1 0.03     1 0.03       15th pass     38	Colony     Enroflozacin (0.001-2mg/m.)     Erythromycin (0.66-128mg/m.)     Flurnequine (0.66-128mg/m.)     Florfenicol (0.004-6mg/m.)     Gentamicin (0.004-6mg/m.)       5th pass     24 $\frac{0.001}{30001}$ 4     0.12 4     16 0.12 100     0.00 0.12 100     16 0.12 100     0.00 12 100     10 100     0.00 12 100     10 100     0.00 12 100     10 100     0.00 12 100     10 100     0.00 12 100     10 100     0.00 12 100     10 100     10	Colory court     Enrofloxacin (0.001-2mg/ml)     Eythromycin (0.001-2mg/ml)     Furnequine (0.001-2mg/ml)     Forfenicol (0.001-2mg/ml)     Gentamicin (0.001-2mg/ml)     Oxytetracycline (0.001-2mg/ml)       5th pass     24     50.001 \$0.001     4     0.12 \$0.001     16     0.012 \$0.01     0.015-22 mg/ml)       5th pass     24     50.001 \$0.001     4     0.12 \$0.001     16     0.12 \$0.12     0.5 \$0.12     0.5 \$0.12     0.5 \$0.12     0.5 \$0.5       10th pass     21     50.001 \$0.001     4     0.12 \$0.001     16     0.12 \$0.05     0.5 \$0.5     0.5 \$0.5       15th pass     21     50.001 \$0.001     4     0.12 \$0.001     16     0.12 \$0.06     0.5 \$0.15     0.5 \$0.05     0.5 \$0.5     0.004     1     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5     0.5 \$0.5











