

Field ID	Species	Location	Fresh or Frozen	Date reported	Sex	Age class			Study area
		Latitude (N)/Longitude (W)	FR=fresh FZ=frozen			pup	juvenile	adult	N=north S=south
WDFW2018-154	harbor seal	47.5700, -122.6700	FR	25-Sep-18	F			X	S
18Pv29SepWI-15	harbor seal	48.2169, -122.7021	FR	29-Sep-18	F		X		N
CRC-1697	harbor seal	47.1495, -122.9330	FR	18-Oct-18	F	X			S
WDFW2018-155	harbor seal	47.3100, -122.6890	FR	27-Sep-18	M	X			S
WDFW2018-201	harbor seal	47.3137, -122.5295	FR	13-Nov-18	F			X	S
SKMMR2018-11-6Pv	harbor seal	47.8132, -122.3825	FR	11-Nov-18	M		X		N
2018-SJ066	harbor seal	48.5199, -123.0095	FZ	5-Dec-18	M	X			N
2018-SJ068	harbor seal	48.5917, -123.0313	FZ	5-Dec-18	F	X			N
2018-SJ069	harbor seal	48.6011, -122.9780	FZ	24-Jun-18	F		X		N
SSW121518	harbor seal	47.5932, -122.3823	FR	18-Dec-18	F		X		S
SSW011219	harbor seal	47.5700, -122.4100	FR	16-Jan-19	F	X			S
WDFW2019-16	harbor seal	47.4054, -122.5221	FR	23-Feb-19	M	X			S
CRC-1707	harbor seal	47.3016, -122.8496	FR	18-Mar-19	F	X			S

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2019-SJ003	harbor seal	48.4902, -123.0658	FR	27-Mar-19	F			X	N
19Pv22AprWI-02	harbor seal	47.9838, -122.3532	FZ	22-Apr-19	M			X	N
19Pv01MayWI-03	harbor seal	47.9698, -122.3497	FR	1-May-19	F			X	N
2019-SJ007	harbor seal	48.6345, -123.0228	FZ	11-May-19	F		X		N
WDFW2019-035	harbor seal	47.3175, -122.5369	FR	13-May-19	M			X	S
SSW061219	harbor seal	47.5312, -122.4005	FR	12-Jun-19	F		X		S
2019-SJ013	harbor seal	48.6298, -122.9584	FZ	20-Jun-19	M	X			N
EJC-2019-15	harbor seal	48.0890, -122.8799	FR	21-Jun-19	F		X		N
SKMMR2019-7-10Pv	harbor seal	47.6859, -122.4038	FR	13-Jul-19	M	X			N
2019-SJ021	harbor seal	48.5156, -123.1504	FR	15-Jul-19	F			X	N
19Pv15JulWI-06	harbor seal	48.0815, -122.6116	FR	15-Jul-19	M	X			N
19Pv16JulWI-07	harbor seal	48.0759, -122.5460	FR	16-Jul-19 2-Aug-19 2-Aug-19	M	X			N

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19Pv18JulSK-01	harbor seal	48.5000, -122.6991	FR	17-Jul-19	M	X			N
19Pv23JulWI-08	harbor seal	48.4022, -122.6538	FR	18-Jul-19	F	X			N
				2-Aug-19					
SKMMR2019-7-8Pv	harbor seal	47.8604, -122.3350	FR	18-Jul-19	M	X			N
CRC-1744	harbor seal	47.5230, -123.0504	FR	22-Jul-19	M			X	S
EJC-2019-16	harbor seal	48.0763, -122.8911	FR	25-Jul-19	F	X			N
19Pv29JulWI-09	harbor seal	47.9850, -122.3546	FR	29-Jul-19	F			X	N
				2-Aug-19					
				2-Aug-19					
CI19-01	harbor seal	47.3215, -122.6877	FR	31-Jul-19	M	X			S
WDFW2019-107	harbor seal	47.7201, -122.6368	FR	31-Jul-19	M	X			S
19Pv04AugWI-11	harbor seal	48.2215, -122.6885	FR	2-Aug-19	M	X			N
SSW080719	harbor seal	47.5778, -122.4140	FR	7-Aug-19	M	X			S
2019-SJ019	harbor seal	48.6718, -123.1698	FZ	10-Aug-19	M	X			N
2019-SJ045	harbor seal	48.5772, -123.1720	FR	10-Aug-19	M			X	N
WDFW2019-112	harbor seal	47.2170, -122.7273	FR	13-Aug-19	M	X			S

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SSW081419	harbor seal	47.5748, -122.4185	FR	16-Aug-19	M	X			S
GI19-16	harbor seal	47.2158, -122.6612	FR	16-Aug-19	M	X			S
WDFW2019-124	harbor seal	47.3833, -122.6273	FR	27-Aug-19	F	X			S
SSW082419	harbor seal	47.5402, -122.3977	FR	27-Aug-19	F	X			S
SKMMR2019-9-2Pv	harbor seal	47.7630, -122.3849	FR	2-Sep-19	M	X			N
GI19-20	harbor seal	47.2163, -122.6613	FR	3-Sep-19	F	X			S
SSW082919	harbor seal	47.5292, -122.4004	FR	3-Sep-19	F	X			S
WDFW2019-128	harbor seal	47.3129, -122.5279	FR	4-Sep-19	F		X		S
19Pv28AugWI-13	harbor seal	48.1242, -122.6004	FR	31-Aug-19	F		X		N
WDFW2019-141	harbor seal	47.3934, -122.6371	FR	16-Sep-19	F	X			S
2019-SJ053	harbor seal	48.4554, -122.9984	FZ	19-Sep-19	F			X	N
2019-SJ058	harbor seal	48.5645, -122.9342	FZ	19-Sep-19	F	X			N
SSW092419	harbor seal	47.5783, -122.4148	FR	24-Sep-19	M	X			S
19Pv30SepWH-25	harbor seal	48.7297, -122.5042	FR	30-Sep-19	M	X			N
MAST2019-008	harbor seal	47.5158, -122.3970	FR	4-Oct-19	M	X			S

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GI19-26	harbor seal	47.2157, -122.6612	FR	11-Oct-19	M			X	S
GI19-27	harbor seal	47.2153, -122.6612	FR	11-Oct-19	F			X	S
EJC-2019-22	harbor seal	48.0936, -122.7236	FR	15-Oct-19	F	X			N
WDFW2019-154	harbor seal	47.5740, -122.6270	FR	15-Oct-19	M	X			N
SSW101519	harbor seal	47.5620, -122.4060	FR	15-Oct-19 15-Oct-19	M	X			S
CRC-1772	harbor seal	47.295, -122.835	FR	26-Oct-19	F	X			S
CRC-1773	harbor seal	47.101, -122.727	FR	26-Oct-19	F	X			S
EJC-2019-26	harbor seal	48.1192, -122.7514	FR	29-Oct-19	F	X			N
SSW110519A	harbor seal	47.5873, -122.3961	FR	8-Nov-19	M	X			S
SSW110519B	harbor seal	47.5928, -122.3823	FR	8-Nov-19	F	X			S
WDFW2019-168	harbor seal	47.2750, -122.4056	FR	14-Nov-19	F			X	S
SKMMR2019-12-9Pv	harbor seal	47.8134, -122.3832	FR	10-Dec-19	F	X			N

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WDFW2019-177	harbor seal	47.3795, -122.5414	FR	11-Dec-19	M			X	S
CRC-1775	harbor seal	47.109, -122.9570	FR	15-Dec-19	F			X	S
WDFW2019-179	harbor seal	47.3494, -123.0680	FR	17-Dec-19	M	X			S
WDFW2019-180	harbor seal	47.2598, -122.6538	FR	31-Dec-19	F			X	S
SKMMR2020-01-025	harbor seal	47.6131, -122.3535	FR	30-Jan-20	M			X	N
WDFW2020-007	harbor seal	47.3810, -122.6356	FR	8-Feb-20	F			X	S
2020-SJ006	harbor seal	48.6600, -123.1888	FZ	20-May-20	F		X		N
20Pv24MayWI-01	harbor seal	48.0149, -122.5862	FR	24-May-20	M			X	N
20Pv25MayWI-02	harbor seal	48.1604, -122.6201	FR	25-May-20	F			X	N
SKMMR2018-9-18Pp	harbor porpoise	47.8424, -122.3465	FR	19-Sep-18	M	X			S
WDFW2018-182	harbor porpoise	47.7340, -122.5050	FR	23-Oct-18	F			X	S

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CRC-1700	harbor porpoise	47.2516, -122.8698	FR	29-Dec-18	F		X		S
CRC-1702	harbor porpoise	47.3606, -122.8257	FR	1-Jan-19	F	X			S
EJC-2019-03	harbor porpoise	47.8674, -122.6637	FR	22-Feb-19	M			X	N
19Pp30MarWH-2	harbor porpoise	48.7094, -122.6723	FR	30-Mar-19	F		X		N
MAST2019-004	harbor porpoise	47.4491, -122.3731	FR	8-Apr-19	F		X		S
SSW041819	harbor porpoise	47.5725, -122.4141	FR	18-Apr-19	M		X		S
CRC-1730	harbor porpoise	47.1717, -122.8761	FR	29-May-19	F			X	S
19Pp14JulWI-01	harbor porpoise	48.3285, -122.6997	FZ	14-Jul-19 2-Aug-19	M	X			N
WDFW2019-091	harbor porpoise	47.2782, -122.6649	FR	16-Jul-19	F	X			S
2019-SJ016	harbor porpoise	48.5179, -122.9814	FR	26-Jul-19	M	X			N
CRC-1755	harbor porpoise	47.4986, -122.4579	FR	8-Aug-19	F	X			S

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2019-SJ043	harbor porpoise	48.5032, -123.0207	FZ	2-Aug-19	M	X			N
2019-SJ052	harbor porpoise	48.4553, -122.9979	FZ	30-Aug-19	F	X			N
WDFW2019-147	harbor porpoise	47.259, -122.6537	FR	27-Sep-19	M		X		S
WDFW2019-155	harbor porpoise	47.3805, -122.6376	FR	24-Oct-19	F		X		S
19Pp22OctWI-02	harbor porpoise	48.2240, -122.6694	FZ	22-Oct-19	M		X		N
WDFW2020-156Pp	harbor porpoise	47.3825, -122.6302	FR	22-May-20	M		X		S
20Pp23MayWI-02	harbor porpoise	48.3379, -122.6892	FR	23-May-20	M			X	N
20Pp23MayWI-03	harbor porpoise	48.1642, -122.6831	FR	23-May-20	F		X		N



<u>Organism(s)</u>	<u>Source</u>							
		Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>b-hemolytic Strep</i>	brain abscess	--	R	S	S	S	S	S
<i>Shewanella algae</i>	large intestine	S	S 4	S ≤ 2	S ≤ 2	S 32	S ≤ 0.25	S ≤ 0.5
<i>Vibrio vulnificus</i>	large intestine	S	R	I 16	R ≥ 32	R ≥ 64	S	S
<i>Arcanobacterium phocae</i>	oral ulcers	S	S	S	S	S	S	S
<i>Mixed enteric nonpath flora</i>	large intestine	--	--	--	--	--	--	--
<i>Shewanella algae</i>	small intestine	S	S ≤ 2	S ≤ 2	S ≤ 2	R ≥ 64	S ≤ 0.25	S ≤ 0.5
<i>E. coli</i>	large intestine	S	S ≤ 2	S ≤ 2	S ≤ 2	S 8	S 0.5	S ≤ 0.5
<i>Pasteurella multocida</i>	bronchiole	--	--	--	--	--	--	--
<i>Aeromonas hydrophila</i>	large intestine	S	S ≤ 2	S 8	R ≥ 32	R ≥ 64	S 2	S 1
<i>E. coli</i>	large intestine	I	S ≤ 2	S 4	S 8	S 8	S 0.5	S 1
<i>E. coli</i>	large intestine	S	S ≤ 2	S ≤ 2	S ≤ 2	S 8	S ≤ 0.25	S ≤ 0.5
<i>Gardnerella vaginalis</i>	large intestine	S	S	S	S	S	S	S
<i>Nothing grew aerobically</i>	large intestine	--	--	--	--	--	--	--
<i>E. coli</i>	large intestine	S	S ≤ 2	S ≤ 2	S 4	S 16	S 1	S ≤ 0.5
<i>E. coli</i>	large intestine	--	--	--	--	--	--	--
<i>E. coli</i>	large intestine	S	S ≤ 2	S ≤ 2	S ≤ 2	S ≤ 4	S ≤ 0.25	S ≤ 0.5
<i>b-hemolytic Strep</i>	large intestine	S	R	S	S	S	S	S
<i>E. coli</i>	large intestine	sensitivities not run						
<i>E. coli (isolate #1)</i>	large intestine	S	S ≤ 2	S ≤ 2	S ≤ 2	S ≤ 4	S ≤ 0.25	S ≤ 0.5
<i>E. coli (isolate #2)</i>	large intestine	S	S ≤ 2	S ≤ 2	S ≤ 2	S 8	S ≤ 0.25	S ≤ 0.5
<i>Arcanobacterium phocae</i>	scapular joint	S	S	S	S	S	S	S

<u>Organism(s)</u>	<u>Source</u>	Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>E. coli</i> (isolate #1)	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>Edwardsiella hoshinae</i> (isolate #2)	large intestine	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>Serratia fonticola</i>	lung	S	S ≤2	R	R	R	R	S 1
<i>E. coli</i> (isolate #1)	peritoneal fluid	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>Actinomyces</i> or related org (isolate #2)	peritoneal fluid	no sensitivities run due to slow growth						
<i>Gamma-hemolytic Strep</i> (isolate #3)	peritoneal fluid	S	S	S	S	S	S	S
<i>Edwardsiella tarda</i> (isolate #1)	large intestine	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>E. coli</i> (isolate #2)	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>Edwardsiella tarda</i> (isolate #1)	lung	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>Pseudomonas aeruginosa</i> (isolate #2)	lung	R	S 8	R ≥32	R ≥32	R ≥64	R ≥8	R ≥8
<i>Escherichia fergusonii</i> (isolate #1)	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i> (isolate #2)	large intestine	S	S ≤2	S 4	S 8	S 8	S 1	S 1
<i>Edwardsiella tarda</i> (isolate #3)	large intestine	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>no pathogens isolated</i>	large intestine	--	--	--	--	--	--	--
<i>E. coli</i>	large intestine	I	S ≤2	S ≤2	S 8	S 8	S 0.5	S 2
<i>no pathogens isolated</i>	large intestine	--	--	--	--	--	--	--
<i>E. coli</i>	large intestine	I	S ≤2	S 4	I 16	S 16	S 2	S 1
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>no pathogens isolated</i>	large intestine	--	--	--	--	--	--	--
<i>E. coli</i>	large intestine	I	S ≤2	S 4	S 8	S 8	S 0.5	S 2
<i>E. coli</i>	left lung lobe	I	S ≤2	S 4	I 16	S 8	S 0.5	S ≤0.5

<u>Organism(s)</u>	<u>Source</u>	Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i> (isolate #1)	large intestine	I	S ≤2	S 4	S 8	S 8	S 0.5	S 1
<i>b-hemolytic Strep</i> (isolate #2)	large intestine	--	R	S	S	S	S	S
<i>Pseudomonas aeruginosa</i> (isolate #1)	lung	R	S ≤2	R ≥32	R ≥32	R ≥64	R ≥8	R ≥8
<i>b-hemolytic Strep, group F</i> (isolate #2)	lung	--	R	S	S	S	S	S
<i>E. coli</i> (isolate #1)	large intestine	S	S ≤2	S 4	S 8	S 8	S ≤0.25	S ≤0.5
<i>Campylobacter</i> spp (isolate #2)	large intestine	no sensitivities run						
<i>E. coli</i> (isolate #3)	large intestine	S	S ≤2	I 16	R ≥32	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S 1
<i>E. coli</i>	large intestine	S	S ≤2	S 4	R ≥32	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i> (isolate #1)	large intestine	S	S ≤2	S 4	R ≥32	S 8	S ≤0.25	S ≤0.5
<i>Pseudomonas aeruginosa</i> (isolate #2)	large intestine	R	S 4	R ≥32	R ≥32	R ≥64	R ≥8	R ≥8
<i>E. coli</i> (isolate #1)	milk	I	S ≤2	S 4	I 16	S 8	S 0.5	S ≤0.5
<i>Proteus vulgaris</i> (isolate #2)	milk	S	S ≤2	S 8	R ≥32	R ≥64	S ≤0.25	S ≤0.5
<i>Pseudomonas aeruginosa</i> (isolate #1)	lung	R	S ≤2	R ≥32	R ≥32	R ≥64	R ≥8	R ≥8
<i>b-hemolytic Strep, group F</i> (isolate #2)	lung	--	R	S	S	S	S	S
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	I	S ≤2	S ≤2	S 8	S 8	S 0.5	S ≤0.5
<i>no pathogens isolated</i>	large intestine	--	--	--	--	--	--	--
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>no pathogens isolated</i>	large intestine	--	--	--	--	--	--	--
<i>E. coli</i>	large intestine	I	S ≤2	S 4	S 8	S 8	S 1	S 1

<i>Organism(s)</i>	Source	Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 8	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	nares	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i> <i>Campylobacter</i> spp.	large intestine tivities not available	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S 1
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 8	S 8	S 0.5	S 1
<i>E. coli</i> <i>Salmonella</i> spp.	large intestine large intestine	I S	S ≤2 R	S 4 S ≤2	S 8 S ≤2	S 8 R	S 0.5 S ≤0.25	S 2 S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i> <i>Hafnia alvei</i>	large intestine lung	S S	S 4 S ≤2	S ≤2 R	S ≤2 R	S ≤4 R ≥64	S ≤0.25 S 2	S ≤0.5 S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 8	S 8	S 0.5	S 1
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5

<u>Organism(s)</u>	<u>Source</u>							
		Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 8	S 8	S ≤0.25	S 1
<i>Elizabethkingia meningoseptica</i>	lymph node	S	S	S	R	R	S	S
<i>Beta-hemolytic Streptococcus species, unknown</i>		sensitivities not run						
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>Pasteurella</i> group (Isolate #1)	lung	S	S	S	S	S	S	S
<i>b-hemolytic Strep, group F (isolate #2)</i>	lung	sensitivities not run						
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	I	S ≤2	S 4	R ≥32	S 8	S 0.5	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli (isolate #1)</i>	abscess	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>b-hemolytic Strep, group F</i>	abscess	sensitivities not run						
<i>E. coli</i>	intestine	S	S ≤2	S 8	S 8	S 8	S 0.5	S 1
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
no pathogens detected	intestine	sensitivities not run						
<i>Salmonella</i> sp	intestine	S	R	S ≤2	S ≤2	R	S ≤0.25	S ≤0.5
<i>Salmonella</i> sp	lung	S	R	S ≤2	S ≤2	R	S ≤0.25	S ≤0.5
<i>Granulicatella adiacens</i>		sensitivities not run						
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S 8	S 8	S 0.5	S 1
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>Edwardsiella tarda (Isolate #1)</i>	abdominal fluid	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>E. coli (Isolate #2)</i>		S	S ≤2	S ≤2	S 4	S 8	S ≤0.25	S ≤0.5
<i>Plesiomonas shigelloides (Isolate #3)</i>		S	S 16	S ≤2	R ≥32	S 16	S 0.5	S ≤0.5
<i>Arcanobacterium haemolyticum (Isolate #4)</i>		sensitivities not run						
no pathogens detected	intestine	sensitivities not run						

<u>Organism(s)</u>	<u>Source</u>							
		Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>E. coli</i> (Isolate #1)	intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>Escherichia fergusonii</i> (Isolate #2)		S	S ≤2	S 4	S 4	S 16	S 0.5	S ≤0.5
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	kidney	S	S ≤2	S ≤2	S 4	S 8	S 0.5	S 1
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S 4	S 8	S 0.5	S 1
<i>E. coli</i>	lung	S	S ≤2	S ≤2	S 4	S 8	S 0.5	S 1
<i>Pseudomonas aeruginosa</i>	uterus	R	S 4	R	R ≥32	R ≥64	R ≥8	R ≥8
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>E. coli</i> (Isolate #1)	intestine	S	S ≤2	S 4	S 8	S 8	S ≤0.25	S 1
<i>E. coli</i> (Isolate #2)		R	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i>	uterus	I	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S 1
<i>Aeromonas hydrophila</i> (Isolate #1)	abdominal fluid	S	S ≤2	S 4	R ≥32	R ≥64	S ≤0.25	S ≤0.5
<i>Pantoea agglomerans</i> (Isolate #2)		S	S ≤2	R	R	R	S ≤0.25	S 1
<i>E. coli</i>	intestine	I	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S 1
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>E. coli</i>	intestine	S	S ≤2	S ≤2	S ≤2	S 16	S ≤0.25	S ≤0.5
<i>E. coli</i> (Isolate #1)	intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
<i>E. coli</i> (Isolate #2)		I	S ≤2	S 4	S 8	S 16	S 0.5	S ≤0.5
<i>Providencia rettgeri</i>	pleural lesion	S	R	R	R	S	S	S
<i>E. coli</i>	pleural lesion	S	S	S	s	S	S	S
<i>Vibrio alginolyticus</i>	large intestine	S	S	R	S	S	S	S
<i>Photobacterium damsela</i>	large intestine	S	S	S	S 8	S ≤0.25	S ≤0.5	S ≤1

<i>Organism(s)</i>	<i>Source</i>	Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>E. coli</i>	thorax	S	S ≤2	S ≤2	S ≤2	S ≤4	S ≤0.25	S ≤0.5
<i>b-hemolytic Strep</i>	thorax	S	R	S	S	S	S	S
<i>Shewanella putrefaciens</i>	large intestine	S	S ≤2	R	R	R ≥64	R	S ≤0.5
<i>Vibrio alginolyticus</i>	large intestine	S	S ≤2	S 4	R ≥32	S 8	S 2	R ≥8
<i>E. coli</i>	large intestine	I	S ≤2	S 4	S 8	S 8	S 0.5	S 1
<i>Pseudomonas fluorescens</i>	large intestine	R	S ≤2	R ≥32	R ≥32	R ≥64	R ≥8	R ≥8
<i>Aeromonas hydrophila</i> group	tonsil	S	S ≤2	S 4	R ≥32	S 8	S ≤0.25	S ≤0.5
<i>Buttiauxella agrestis</i>	tonsil	S	S ≤2	S 4	S 8	--	S ≤0.25	S 1
<i>E. coli</i>	large intestine	I	S ≤2	S 8	I 16	S 8	S 0.5	S ≤0.5
<i>Buttiauxella agrestis</i>	large intestine	S	S ≤2	S ≤2	S 8	S ≤4	S ≤0.25	S ≤0.5
<i>Vibrio fluvialis</i>	large intestine	S	S ≤2	I 16	I 16	R ≥64	S 0.5	S ≤0.5
<i>Vibrio parahaemolyticus</i>	no other lesions	S	S ≤2	S ≤2	R ≥32	S 16	S 1	S 2
<i>Aeromonas hydrophila</i> group		S	S ≤2	S 8	R ≥32	R ≥64	S ≤0.25	S ≤0.5
<i>Aeromonas hydrophila</i> group	large intestine	S	S ≤2	I 16	R ≥32	R ≥64	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S 4	S 8	S 16	S 0.5	S 1
<i>Vibrio parahaemolyticus</i>	large intestine	S	S ≤2	S ≤2	R ≥32	S 16	S 0.5	S 1
<i>Shewanella algae</i>	large intestine	S	S ≤2	S ≤2	S ≤2	R ≥64	S ≤0.25	S ≤0.5
<i>Shewanella algae</i>	colostrum	S	S ≤2	S ≤2	R	R	S ≤0.25	S ≤0.5
<i>Proteus penneri</i>	colostrum	S	S ≤2	S ≤2	S ≤2	R ≥64	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5
no pathogens detected	lung							
<i>Moellerella wisconsensis</i>	large intestine				sensitivities not run			
no pathogens detected	large intestine							
no pathogens detected	large intestine							

<u>Organism(s)</u>	<u>Source</u>	Florfenicol	Amikacin	Amoxi/Clav	Amoxicillin	Cephalexin	Cefpodoxime	Cefovecin
<i>V. cholerae</i>	large intestine	S	S ≤2	S 8	S 8	S 16	S ≤0.25	S ≤0.5
<i>E. coli</i>	large intestine	S	S ≤2	S ≤2	S 8	S 8	S 0.5	S 1
No pathogens detected	large intestine							
<i>E. coli</i> (isolate #1)	kidney	S	S ≤2	S 4	S 8	S 16	S ≤0.25	S 1
<i>Acinetobacter</i> spp (isolate #2)		I	S ≤2	S ≤2	S ≤2	S ≤4	S 1	R ≥8
<i>Plesiomonas shigelloides</i> (isolate #1)	mediastinal ln	S	S 16	S ≤2	R ≥32	S 16	S 0.5	S ≤0.5
<i>Enterobacter</i> species (isolate #2)		S	S ≤2	R	R	R	R	R
No pathogens detected	large intestine							
No pathogens detected	lung							
<i>Pseudomonas fluorescens</i>	large intestine	R	S	R	R	R	R	R
No pathogens detected	large intestine							
<i>E. coli</i>	large intestine	I	S ≤2	S ≤2	S 4	S 8	S 0.5	S 1
<i>E. coli</i>	large intestine	R	S ≤2	S ≤2	S ≤2	S 8	S ≤0.25	S ≤0.5



**Antibiotics**

Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	Trimethoprim sulfamethoxazole
S S ≤1	S S 8	S S	S S ≤0.12	R S ≤1	S 1 8	S S ≤0.5	R S ≤20
S	S	S	S	R	S	S	S
S --	S --	S --	S --	S --	S --	S --	R --
S ≤1	S ≤2	--	S ≤0.12	S ≤1	S 2	S ≤0.5	S ≤20
S ≤1 --	S 8 --	S 1 --	S ≤0.12 --	S ≤1 --	S ≤0.25 --	S ≤0.5 --	S ≤20 --
R ≥8 S ≤1	S ≤2 1 16	-- S 1	S ≤0.12 S ≤0.12	S ≤1 S ≤1	S ≤0.25 S ≤0.25	S ≤0.5 S ≤0.5	S ≤20 S ≤20
S ≤1 S	S ≤2 S	S ≤0.5 S	S ≤0.12 S	S ≤1 S	S ≤0.25 S	S ≤0.5 S	S ≤20 R
--	--	--	--	--	--	--	--
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
--	--	--	--	--	--	--	--
S ≤1 S	S ≤2 S	S ≤0.5 S	S ≤0.12	S ≤1 R	S ≤0.25 S	S ≤0.5 S	S ≤20 R
S ≤1 S ≤1 S	S ≤2 S 8 S	S ≤0.5 S 1 S	S ≤0.12 S ≤0.12 S	S ≤1 S ≤1 S	S ≤0.25 S ≤0.25 S	S ≤0.5 S ≤0.5 S	S ≤20 S ≤20 R

**Antibiotics**

Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	Trimethoprim sulfa
S ≤1	S ≤2	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	R	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S	S	S	S	S	S	S	S
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
R ≥8	R ≥64	--	I 1	S 4	S 1	S ≤0.5	R 80
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤2	S ≤1	S ≤0.25	S ≤0.5	S ≤20
--	--	--	--	--	--	--	--
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
--	--	--	--	--	--	--	--
S ≤1	I 16	S 2	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	--
--	--	--	--	--	--	--	--
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20

**Antibiotics**

							Trimethoprim sulfa
Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S	S	S	S	R	S	S	R
R ≥8	R ≥64	--	I 1	S ≤1	S 2	S ≤0.5	R ≥320
S	S	S	S	R	S	S	R
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	R ≥16	I 1	S ≤1	S ≤0.25	S ≤0.5	R ≥320
S ≤1	S 8	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	R ≥16	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	R ≥320
R ≥8	R 32	--	I 1	S ≤1	S 1	S ≤0.5	R 160
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	R	S ≤0.12	S ≤1	R 4	S ≤0.5	S ≤20
R ≥8	R ≥64	--	I 1	S ≤1	S 2	S ≤0.5	R 80
S	S	S	S	R	S	S	R
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
--	--	--	--	--	--	--	--
S ≤1	S ≤2	R ≥16	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
--	--	--	--	--	--	--	--
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20

**Antibiotics**

Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	Trimethoprim sulfamethoxazole
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	R ≥16	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	R ≥16	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 2	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	R	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 2	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20

**Antibiotics**

Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	Trimethoprim sulfa
S ≤1 S	S 8 S	S 1 S	S ≤0.12 S	S ≤1 S	S ≤0.25 S	S ≤0.5 S	S ≤20 R
S ≤1 S	S ≤2 S	S ≤0.5 S	S ≤0.12 S	S ≤1 S	S ≤0.25 S	S ≤0.5 S	S ≤20 S
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 1	S ≤0.12	R ≥16	S ≤0.25	S ≤0.5	R ≥320
S ≤1 S ≤1	S 4 S 8	S ≤0.5 S ≤0.5	S ≤0.12 S ≤0.12	S ≤1 S ≤1	S ≤0.25 S ≤0.25	S ≤0.5 S ≤0.5	S ≤20 S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1 S ≤1	S ≤2 S 4	S 1 S 1	S ≤0.12 S ≤0.12	R R	S ≤0.25 S ≤0.25	S ≤0.5 S ≤0.5	S ≤20 S ≤20
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1 S ≤1 S ≤1 S ≤1	S 8 S ≤2 S 8 S ≤2	S 1 S 1 S 1 S ≤0.5	S ≤0.12 S ≤0.12 S ≤0.12 S ≤0.12	S ≤1 S ≤1 S ≤1 S 4	S ≤0.25 S ≤0.25 S ≤0.25 S ≤0.25	S ≤0.5 S ≤0.5 S ≤0.5 S ≤0.5	S ≤20 S ≤20 S ≤20 S ≤20

**Antibiotics**

Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	Trimethoprim sulfamethoxazole
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
R	R ≥64	R	S 0.5	S 4	S ≤0.25	S ≤0.5	R 160
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	R ≥64	I 8	R ≥4	S ≤1	S ≤0.25	R ≥4	S ≤20
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	--	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S 1	S 0.25	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
I	R	S	I	S	S	S	S
I	S	S	I	S	S	S	S
S	--	S	--	S	S	S	S
S 8	S	S ≤0.12	S	S ≤1	S ≤0.25	S ≤0.5	S ≤20

**Antibiotics**

Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	Trimethoprim sulfa
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S	S	S		R	S	S	R
S ≤1	S 4	S ≤0.5	S ≤0.12	S ≤1	I 2	S ≤0.5	S ≤20
S ≤1	S ≤2	S	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
R ≥8	R ≥64	S 1	S 0.5	S ≤1	R ≥16	S ≤0.5	S 40
S ≤1	S ≤2	--	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	I 16	S 2	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S	S ≤2	--	S ≤0.12	S ≤1	S 1	S ≤0.5	S ≤20
S ≤1	S ≤2	--	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	--	S ≤0.12	S ≤1	S 4	S ≤0.5	S ≤20
S 2	S ≤2	R	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	--	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	R	S ≤0.12	S ≤1	S 2	S ≤0.5	S ≤20
S ≤1	S 8	R	S ≤0.12	S ≤1	R 4	S ≤0.5	S ≤20
S ≤1	S ≤2	R	S ≤0.12	S ≤1	S 2	S ≤0.5	S ≤20
S ≤1	S 4	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20

**Antibiotics**

Ceftiofur	Chloramphenicol	Doxycycline	Enrofloxacin	Gentamicin	Imipenem	Marbofloxacin	Trimethoprim sulfamethoxazole
S ≤1	S ≤2	--	S ≤0.12	S ≤1	S 1	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S 8	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S 2	I 16	S ≤0.5	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	S ≤2	S ≤0.5	S ≤0.12	S 4	S ≤0.25	S ≤0.5	S ≤20
R	S ≤2	S 1	S ≤0.12	S ≤1	R	S ≤0.5	S ≤20
R	R	S	S	S	S	S	R
S ≤1	I 16	S 1	S ≤0.12	S ≤1	S ≤0.25	S ≤0.5	S ≤20
S ≤1	R ≥64	R	R ≥16	S ≤1	S ≤0.25	S ≤0.5	R ≥320