

Table 2 Phenotypic antimicrobial resistance among pathogenic bacteria from pigs, Denmark, 2016-2022.																														
Antimicrobial agent	2016				2017				2018				2019				2020				2021				2022				2022 vs. 2021 P value	2022 vs. 2017 P value
	R	S	Total	% R	R	S	Total	% R	R	S	Total	% R	R	S	Total	% R	R	S	Total	% R	R	S	Total	% R	R	S	Total	% R		
Actinobacillus pleuropneumoniae																														
Amoxicillin	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	29	29	0,0%	Not tested	Not tested
Ampicillin	0	159	159	0,0%	1	133	134	0,7%	0	102	102	0,0%	1	115	116	0,9%	1	137	138	0,7%	2	157	159	1,3%	0	58	58	0,0%	1,0000	1,0000
Ceftiofur	1	158	159	0,6%	1	133	134	0,7%	0	102	102	0,0%	1	115	116	0,9%	0	138	138	0,0%	1	158	159	0,6%	1	86	87	1,1%	1,0000	1,0000
Doxycycline	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	29	29	0,0%	Not tested	Not tested
Enrofloxacin	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	1	28	29	3,4%	Not tested	Not tested
Erythromycin	0	159	159	0,0%	0	134	134	0,0%	0	102	102	0,0%	0	116	116	0,0%	0	138	138	0,0%	0	159	159	0,0%	0	58	58	0,0%	1,0000	1,0000
Florfenicol	0	159	159	0,0%	0	134	134	0,0%	0	102	102	0,0%	0	116	116	0,0%	0	138	138	0,0%	0	159	159	0,0%	0	87	87	0,0%	1,0000	1,0000
Penicillin	0	159	159	0,0%	1	133	134	0,7%	0	102	102	0,0%	1	115	116	0,9%	0	138	138	0,0%	3	156	159	1,9%	1	86	87	1,1%	1,0000	1,0000
Tetracycline	1	158	159	0,6%	3	131	134	2,2%	3	99	102	2,9%	0	116	116	0,0%	1	137	138	0,7%	6	153	159	3,8%	2	56	58	3,4%	1,0000	0,6390
Tiamulin	0	159	159	0,0%	0	134	134	0,0%	0	102	102	0,0%	0	116	116	0,0%	0	138	138	0,0%	0	159	159	0,0%	0	87	87	0,0%	1,0000	1,0000
Tildipirosin	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	29	29	0,0%	Not tested	Not tested
Tilmicosin	0	159	159	0,0%	0	134	134	0,0%	0	102	102	0,0%	0	116	116	0,0%	0	138	138	0,0%	0	159	159	0,0%	0	87	87	0,0%	1,0000	1,0000
Trimethoprim-sulfamethoxazole	0	159	159	0,0%	0	134	134	0,0%	0	102	102	0,0%	1	115	116	0,9%	0	138	138	0,0%	0	159	159	0,0%	0	87	87	0,0%	1,0000	1,0000
Tulathromycin	0	159	159	0,0%	0	134	134	0,0%	0	102	102	0,0%	0	116	116	0,0%	0	138	138	0,0%	0	146	146	0,0%	0	87	87	0,0%	1,0000	1,0000
Bordetella bronchiseptica																														
Ampicillin	38	0	38	100,0%	47	0	47	100,0%	21	0	21	100,0%	33	0	33	100,0%	37	0	37	100,0%	38	0	38	100,0%	19	0	19	100,0%	1,0000	1,0000
Florfenicol	2	36	38	5,3%	0	47	47	0,0%	0	21	21	0,0%	0	33	33	0,0%	3	34	37	8,1%	0	38	38	0,0%	0	36	36	0,0%	1,0000	1,0000
Tildipirosin	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	17	17	0,0%	Not tested	Not tested
Tulathromycin	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	1	29	30	3,3%	Not tested	Not tested
Haemolytic Escherichia coli																														
Amoxicillin	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	177	73	250	70,8%	Not tested	Not tested
Amoxicillin-clavulanic acid	39	282	321	12,1%	29	227	256	11,3%	31	233	264	11,7%	34	218	252	13,5%	47	203	250	18,8%	35	207	242	14,5%	40	256	296	13,5%	0,8028	0,5190
Ampicillin	180	141	321	56,1%	139	117	256	54,3%	163	101	264	61,7%	157	95	252	62,3%	152	98	250	60,8%	162	80	242	66,9%	28	18	46	60,9%	0,4974	0,4261
Cefotaxime	17	304	321	5,3%	10	246	256	3,9%	6	258	264	2,3%	6	246	252	2,4%	11	239	250	4,4%	10	232	242	4,1%	2	44	46	4,3%	1,0000	1,0000
Cefpodoxime	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	250	250	0,0%	Not tested	Not tested
Ceftiofur	4	317	321	1,2%	4	252	256	1,6%	1	263	264	0,4%	3	249	252	1,2%	4	246	250	1,6%	2	240	242	0,8%	0	46	46	0,0%	1,0000	1,0000
Chloramphenicol	49	272	321	15,3%	42	214	256	16,4%	54	210	264	20,5%	46	206	252	18,3%	46	204	250	18,4%	55	187	242	22,7%	10	36	46	21,7%	1,0000	0,3974
Ciprofloxacin	16	305	321	5,0%	21	235	256	8,2%	17	247	264	6,4%	20	232	252	7,9%	22	228	250	8,8%	22	220	242	9,1%	6	40	46	13,0%	0,4165	0,2707
Colistin	6	315	321	1,9%	3	253	256	1,2%	1	263	264	0,4%	0	252	252	0,0%	2	248	250	0,8%	2	240	242	0,8%	3	293	296	1,0%	1,0000	1,0000
Doxycycline	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	129	121	250	51,6%	Not tested	Not tested
Enrofloxacin	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	0	0	0	#DIVISION/0!	23	227	250	9,2%	Not tested	Not tested
Florfenicol	26	295	321	8,1%	19	237	256	7,4%	34	230	264	12,9%	26	226	252	10,3%	34													