



Antimicrobial Resistant Gene Detection Report

Date :05.11.2020

Name & Address of customer		Veterinary Microbiology 12th Floor, 60th year Veterinary Science building Faculty of Veterinary Science, Chulalongkorn University, Henri-Dunant Rd., Pathumwan, Bangkok 10330	
Sample ID / type		Ped. BYF 20	PTA220
Date of sample receipt	27-10-2020	Method of test	Real-time PCR with specific probes
Date of sample testing	29-10-2020 to 04-11-2020	Condition of sample when receive	Genomic DNA

Results

	Antimicrobial classes	Target gene	Results
1	β-lactams (penicillin, amoxicillin, cephalosporin)	CTX-M1	NF
2		CTX-M2-M74	NF
3		CTX-M8-M25	NF
4		CTX-M9	NF
5		PER	NF
6		VEB	NF
7		CMY1-MOX	NF
8		CMY2-LAT	NF
9		DHA	NF
10		FOX	NF
11		ACT-MIR	NF
12		OXA-1	NF
15	Carbapenems	KPC	NF
16		NDM	NF
17		VIM	NF
18		IMP	NF
19		OXA-48	NF
20	Folate pathway inhibitors	<i>sul1</i>	NF
21		<i>sul2</i>	NF
22		<i>sul3</i>	NF
23		<i>dfra1</i>	NF
24		<i>dfra5-14</i>	NF
25		<i>dfra12</i>	NF
26		<i>dfra17</i>	NF

	Antimicrobial classes	Target gene	Results
27	Polymyxins	<i>mcr-1</i>	NF
28		<i>mcr-2</i>	NF
29	Tetracyclines	<i>tetA</i>	NF
30		<i>tetB</i>	NF
31	Phenicols	<i>cmlA</i>	NF
32		<i>floR</i>	NF
33		<i>catA1</i>	NF
34		<i>catB3</i>	NF
35	Aminoglycosides	<i>aacC1</i>	NF
36		<i>aacC2</i>	NF
37		<i>aacC4</i>	NF
38		<i>aphA1</i>	NF
39		<i>aadA1-2-17</i>	NF
40		<i>aadB</i>	NF
41		<i>armA</i>	NF
42		<i>rmtB</i>	NF
43	Macrolides	<i>ermB</i>	NF
44		<i>mphA</i>	NF
45	Quinolones	<i>qnrA</i>	NF
46		<i>qnrS</i>	NF
47		<i>qnrB1</i>	NF
48		<i>qnrB4</i>	NF
49		<i>QepA</i>	NF

~ 3-8 X10⁶ cells was tested. Positive grading criteria: 1+ = ≥ 10¹-10², 2+ = >10²-10³ and 3+ = >10³ positive cells NF = Not found

Tested person: *Rattapha Chinli*
(Ms. Rattapha Chinli)

Authorized person: *Suporn Foongladda*
(Assoc.Prof.Dr. Suporn Foongladda)



Antimicrobial Resistant Gene Detection Report

Date :05.11.2020

Name & Address of customer	Veterinary Microbiology 12th Floor, 60th year Veterinary Science building Faculty of Veterinary Science, Chulalongkorn University, Henri-Dunant Rd., Pathumwan, Bangkok 10330		
Sample ID / type	Ped. BYF 26	PTA221	
Date of sample receipt	27-10-2020	Method of test	Real-time PCR with specific probes
Date of sample testing	29-10-2020 to 04-11-2020	Condition of sample when receive	Genomic DNA

Results

	Antimicrobial classes	Target gene	Results
1	β-lactams (penicillin, amoxicillin, cephalosporin)	CTX-M1	NF
2		CTX-M2-M74	NF
3		CTX-M8-M25	NF
4		CTX-M9	NF
5		PER	NF
6		VEB	NF
7		CMY1-MOX	NF
8		CMY2-LAT	NF
9		DHA	NF
10		FOX	NF
11		ACT-MIR	NF
12		OXA-1	NF
15	Carbapenems	KPC	NF
16		NDM	NF
17		VIM	NF
18		IMP	NF
19		OXA-48	NF
20	Folate pathway inhibitors	<i>sul1</i>	NF
21		<i>sul2</i>	NF
22		<i>sul3</i>	NF
23		<i>dfra1</i>	NF
24		<i>dfra5-14</i>	NF
25		<i>dfra12</i>	NF
26		<i>dfra17</i>	NF

	Antimicrobial classes	Target gene	Results
27	Polymyxins	<i>mcr-1</i>	NF
28		<i>mcr-2</i>	NF
29	Tetracyclines	<i>tetA</i>	NF
30		<i>tetB</i>	NF
31	Phenicols	<i>cmlA</i>	NF
32		<i>floR</i>	NF
33		<i>catA1</i>	NF
34		<i>catB3</i>	NF
35	Aminoglycosides	<i>aacC1</i>	NF
36		<i>aacC2</i>	NF
37		<i>aacC4</i>	NF
38		<i>aphA1</i>	NF
39		<i>aadA1-2-17</i>	NF
40		<i>aadB</i>	NF
41		<i>armA</i>	NF
42	<i>rmtB</i>	NF	
43	Macrolides	<i>ermB</i>	NF
44		<i>mphA</i>	NF
45	Quinolones	<i>qnrA</i>	NF
46		<i>qnrS</i>	NF
47		<i>qnrB1</i>	NF
48		<i>qnrB4</i>	NF
49		<i>QepA</i>	NF

~ 3-8 X10⁶ cells was tested. Positive grading criteria: 1+ : ≥ 10¹-10², 2+ : >10²-10³ and 3+ = >10³ positive cells NF = Not found

Tested person: *Rattapha Chinli*
(Ms. Rattapha Chinli)

Authorized person: *Suporn Foongladda*
(Assoc.Prof.Dr. Suporn Foongladda)



Antimicrobial Resistant Gene Detection Report

Date :05.11.2020

Name & Address of customer	Veterinary Microbiology 12th Floor, 60th year Veterinary Science building Faculty of Veterinary Science, Chulalongkorn University, Henri-Dunant Rd., Pathumwan, Bangkok 10330		
Sample ID / type	Ped. BF 9	PTA222	
Date of sample receipt	27-10-2020	Method of test	Real-time PCR with specific probes
Date of sample testing	29-10-2020 to 04-11-2020	Condition of sample when receive	Genomic DNA

Results

	Antimicrobial classes	Target gene	Results
1	β-lactams (penicillin, amoxicillin, cephalosporin)	CTX-M1	NF
2		CTX-M2-M74	NF
3		CTX-M8-M25	NF
4		CTX-M9	NF
5		PER	NF
6		VEB	NF
7		CMY1-MOX	NF
8		CMY2-LAT	NF
9		DHA	NF
10		FOX	NF
11		ACT-MIR	NF
12		OXA-1	NF
15	Carbapenems	KPC	NF
16		NDM	NF
17		VIM	NF
18		IMP	NF
19		OXA-48	NF
20	Folate pathway inhibitors	<i>sul1</i>	NF
21		<i>sul2</i>	NF
22		<i>sul3</i>	NF
23		<i>dfra1</i>	NF
24		<i>dfra5-14</i>	NF
25		<i>dfra12</i>	NF
26		<i>dfra17</i>	NF

	Antimicrobial classes	Target gene	Results
27	Polymyxins	<i>mcr-1</i>	NF
28		<i>mcr-2</i>	NF
29	Tetracyclines	<i>tetA</i>	NF
30		<i>tetB</i>	NF
31	Phenicols	<i>cmlA</i>	NF
32		<i>floR</i>	NF
33		<i>catA1</i>	NF
34		<i>catB3</i>	NF
35	Aminoglycosides	<i>aacC1</i>	NF
36		<i>aacC2</i>	NF
37		<i>aacC4</i>	NF
38		<i>aphA1</i>	NF
39		<i>aadA1-2-17</i>	NF
40		<i>aadB</i>	NF
41		<i>armA</i>	NF
42	<i>rmtB</i>	NF	
43	Macrolides	<i>ermB</i>	3+
44		<i>mphA</i>	NF
45	Quinolones	<i>qnrA</i>	NF
46		<i>qnrS</i>	NF
47		<i>qnrB1</i>	NF
48		<i>qnrB4</i>	NF
49		<i>QepA</i>	NF

~ 3-8 X10⁶ cells was tested. Positive grading criteria: 1+ : ≥ 10¹-10², 2+ : >10²-10³ and 3+ = >10³ positive cells NF = Not found

Tested person: *Rattapha Chinli*
(Ms. Rattapha Chinli)

Authorized person: *Suporn Foongladda*
(Assoc.Prof.Dr. Suporn Foongladda)



Antimicrobial Resistant Gene Detection Report

Date :05.11.2020

Name & Address of customer	Veterinary Microbiology 12th Floor, 60th year Veterinary Science building Faculty of Veterinary Science, Chulalongkorn University, Henri-Dunant Rd., Pathumwan, Bangkok 10330		
Sample ID / type	Ped. BF 14	PTA223	
Date of sample receipt	27-10-2020	Method of test	Real-time PCR with specific probes
Date of sample testing	29-10-2020 to 04-11-2020	Condition of sample when receive	Genomic DNA

Results

	Antimicrobial classes	Target gene	Results		Antimicrobial classes	Target gene	Results
1	β-lactams (penicillin, amoxicillin, cephalosporin)	CTX-M1	NF	27	Polymyxins	<i>mcr-1</i>	NF
2		CTX-M2-M74	NF	28		<i>mcr-2</i>	NF
3		CTX-M8-M25	NF	29	Tetracyclines	<i>tetA</i>	NF
4		CTX-M9	NF	30		<i>tetB</i>	NF
5		PER	NF	31	Phenicols	<i>cmlA</i>	NF
6		VEB	NF	32		<i>floR</i>	NF
7		CMY1-MOX	NF	33		<i>catA1</i>	NF
8		CMY2-LAT	NF	34		<i>catB3</i>	NF
9		DHA	NF	35	Aminoglycosides	<i>aacC1</i>	NF
10		FOX	NF	36		<i>aacC2</i>	NF
11		ACT-MIR	NF	37		<i>aacC4</i>	NF
12		OXA-1	NF	38		<i>aphA1</i>	NF
15	Carbapenems	KPC	NF	39		<i>aadA1-2-17</i>	NF
16		NDM	NF	40		<i>aadB</i>	NF
17		VIM	NF	41		<i>armA</i>	NF
18		IMP	NF	42	<i>rmtB</i>	NF	
19		OXA-48	NF	43	Macrolides	<i>ermB</i>	3+
20	Folate pathway inhibitors	<i>sul1</i>	NF	44		<i>mphA</i>	NF
21		<i>sul2</i>	NF	45	Quinolones	<i>qnrA</i>	NF
22		<i>sul3</i>	NF	46		<i>qnrS</i>	NF
23		<i>dfra1</i>	NF	47		<i>qnrB1</i>	NF
24		<i>dfra5-14</i>	NF	48		<i>qnrB4</i>	NF
25		<i>dfra12</i>	NF	49		<i>QepA</i>	NF
26		<i>dfra17</i>	NF				

~ 3-8 X10⁶ cells was tested. Positive grading criteria: 1+ : ≥ 10¹-10², 2+ : >10²-10³ and 3+ = >10³ positive cells NF = Not found

Tested person: *Rattapha Chinli*
(Ms. Rattapha Chinli)

Authorized person: *Suporn Foongladda*
(Assoc.Prof.Dr. Suporn Foongladda)



Antimicrobial Resistant Gene Detection Report

Date :05.11.2020

Name & Address of customer	Veterinary Microbiology 12th Floor, 60th year Veterinary Science building Faculty of Veterinary Science, Chulalongkorn University, Henri-Dunant Rd., Pathumwan, Bangkok 10330		
Sample ID / type	Lac. BF 12	PTA224	
Date of sample receipt	27-10-2020	Method of test	Real-time PCR with specific probes
Date of sample testing	29-10-2020 to 04-11-2020	Condition of sample when receive	Genomic DNA

Results

	Antimicrobial classes	Target gene	Results
1	β-lactams (penicillin, amoxicillin, cephalosporin)	CTX-M1	NF
2		CTX-M2-M74	NF
3		CTX-M8-M25	NF
4		CTX-M9	NF
5		PER	NF
6		VEB	NF
7		CMY1-MOX	NF
8		CMY2-LAT	NF
9		DHA	NF
10		FOX	NF
11		ACT-MIR	NF
12		OXA-1	NF
15	Carbapenems	KPC	NF
16		NDM	NF
17		VIM	NF
18		IMP	NF
19		OXA-48	NF
20	Folate pathway inhibitors	<i>sul1</i>	NF
21		<i>sul2</i>	NF
22		<i>sul3</i>	NF
23		<i>dfra1</i>	NF
24		<i>dfra5-14</i>	NF
25		<i>dfra12</i>	NF
26		<i>dfra17</i>	NF

	Antimicrobial classes	Target gene	Results
27	Polymyxins	<i>mcr-1</i>	NF
28		<i>mcr-2</i>	NF
29	Tetracyclines	<i>tetA</i>	NF
30		<i>tetB</i>	NF
31	Phenicols	<i>cmlA</i>	NF
32		<i>floR</i>	NF
33		<i>catA1</i>	NF
34		<i>catB3</i>	NF
35	Aminoglycosides	<i>aacC1</i>	NF
36		<i>aacC2</i>	NF
37		<i>aacC4</i>	NF
38		<i>aphA1</i>	NF
39		<i>aadA1-2-17</i>	NF
40		<i>aadB</i>	NF
41		<i>armA</i>	NF
42	<i>rmtB</i>	NF	
43	Macrolides	<i>ermB</i>	NF
44		<i>mphA</i>	NF
45	Quinolones	<i>qnrA</i>	NF
46		<i>qnrS</i>	NF
47		<i>qnrB1</i>	NF
48		<i>qnrB4</i>	NF
49		<i>QepA</i>	NF

~ 3-8 X10⁶ cells was tested. Positive grading criteria: 1+ : ≥ 10¹-10², 2+ : >10²-10³ and 3+ = >10³ positive cells NF = Not found

Tested person: *Rattapha Chinli*
(Ms. Rattapha Chinli)

Authorized person: *Suporn Foongladda*
(Assoc.Prof.Dr. Suporn Foongladda)