

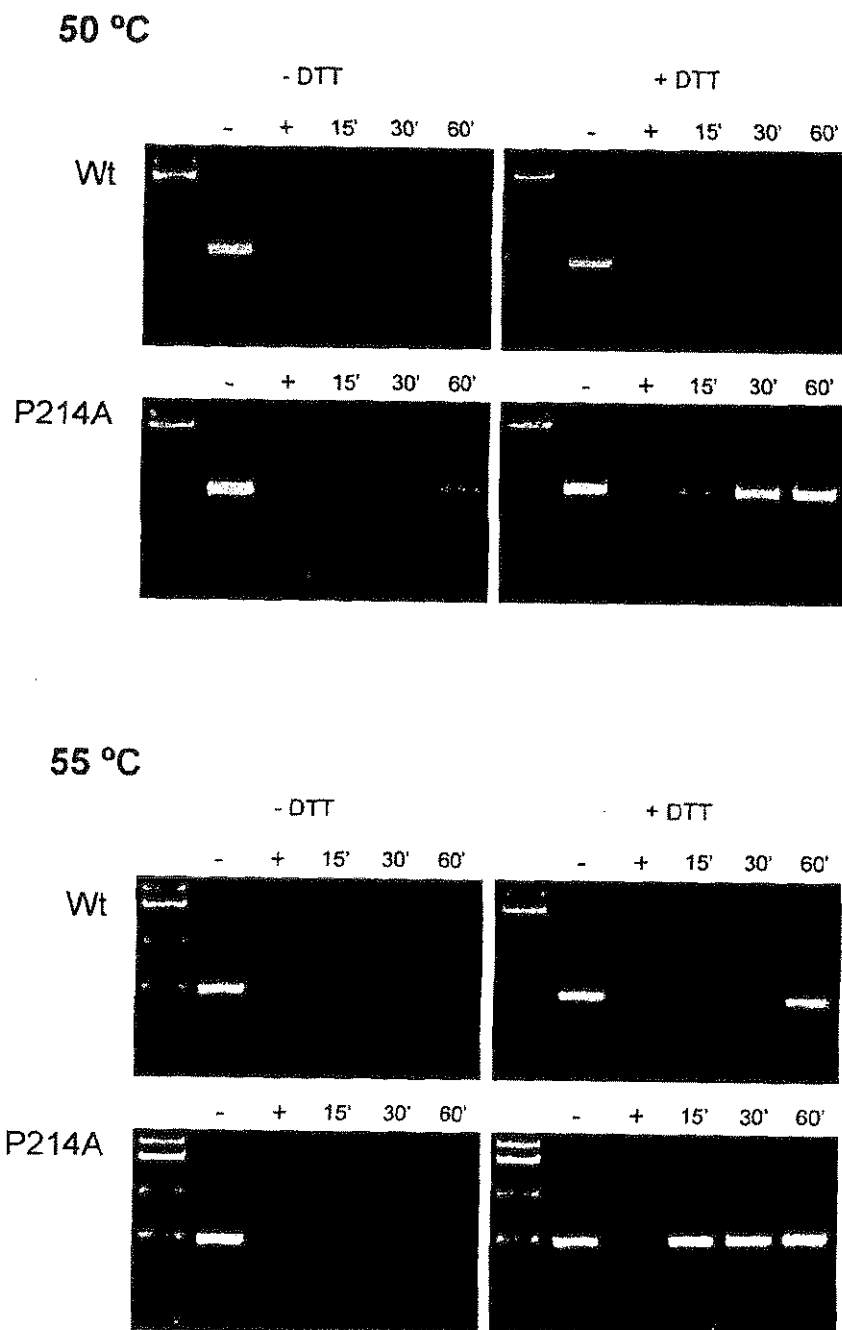


Figure 1a

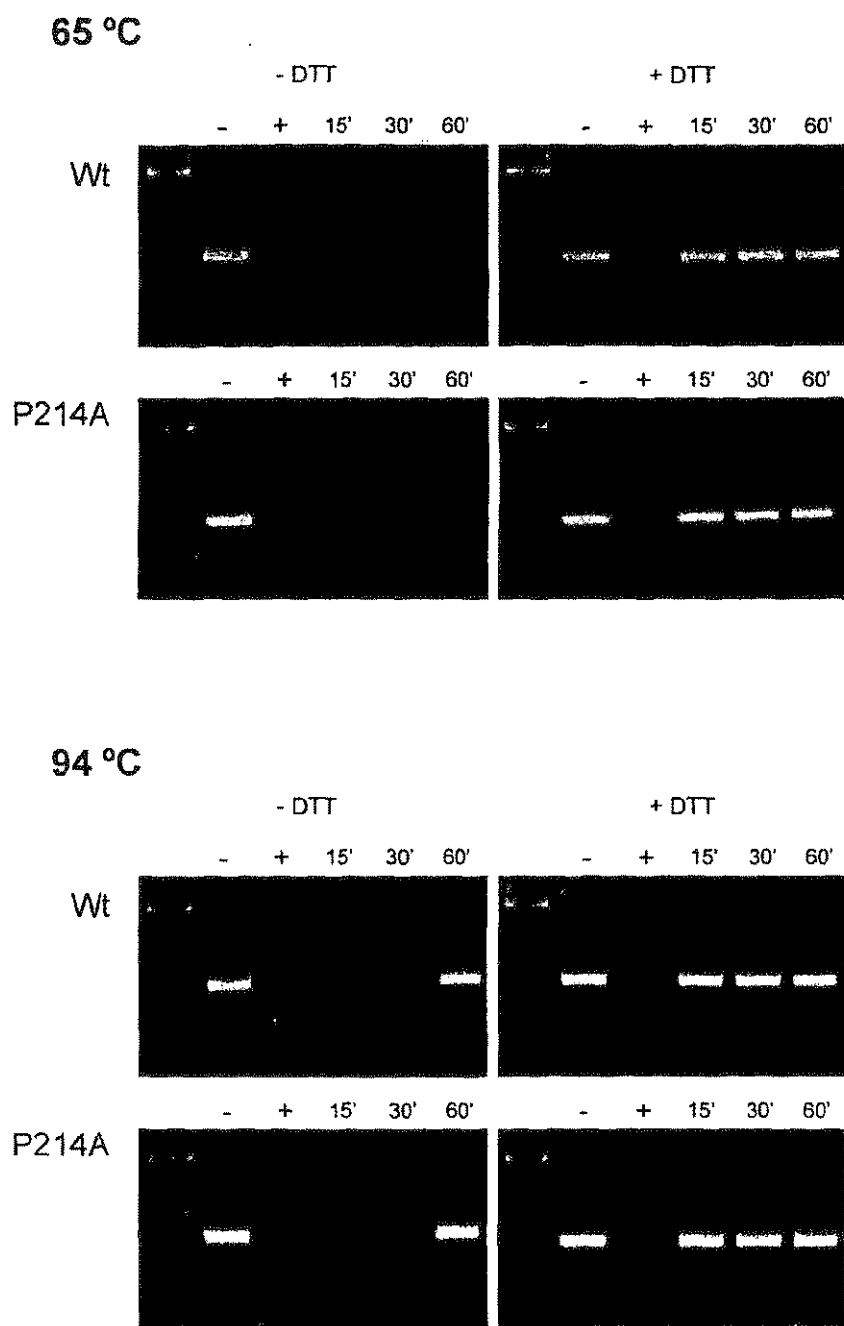


Figure 1b

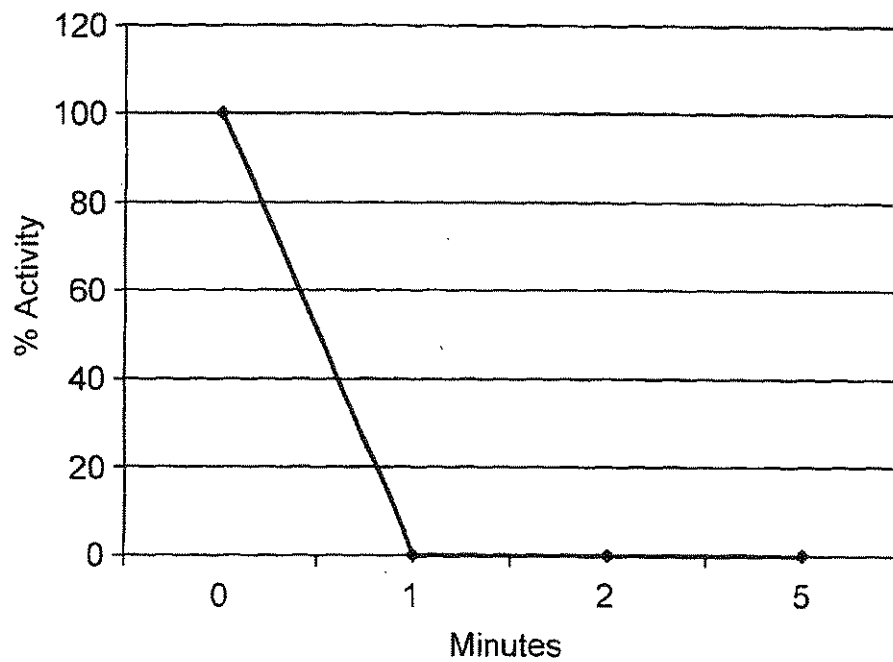


Figure 2

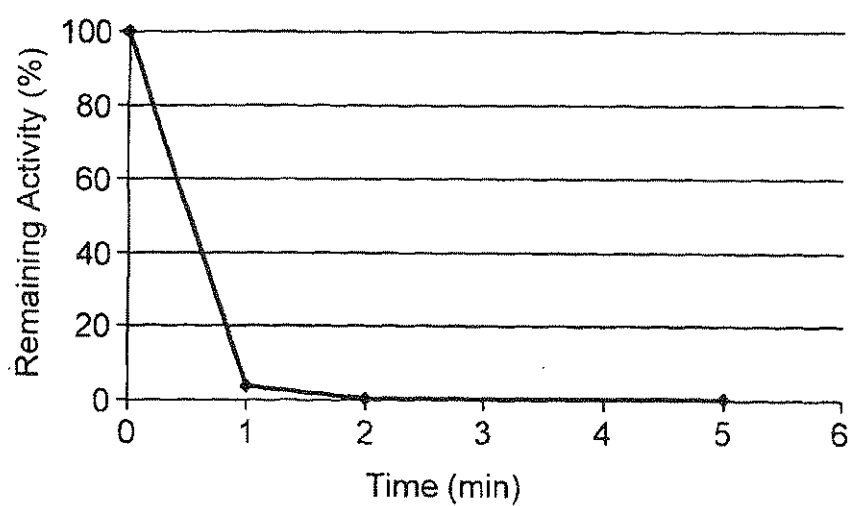


Figure 3

1 EDCVWDNDVDYPEYPPILIDSSFQLVLPVLEGDQRITSVQSGSKLLILACPGRGISALGSE
61 DAQATCLGGKLVVDGKEWNIVELGCTKMASETIHRNLGQCGDQDLGIYEVI GFDLPTTG
121 HFYELIRVCFDPANETTIFSENIVHGASIAAKDIDPGRPSFKTSTGFFSVSMISVYSQRS
181 QLELMKNLLGDDELAATIIDPSEQFYFAKGHMAADADFVTVVEQDATYYYINALPQWQAF
241 NNGNWKYLEYDTRDLAEKHGTDLTVYSGGWGVLELEDINGNPVEIYLGLAQDKKVV PAPA
301 LTWKVIYEKDTNRAAAIVGINNPHITTAPEPLCTDICSSLTWLDFDFGDLVHGYTYCCSV
361 ADLRAAIPNVPD LGDVDILDE

Figure 4

GAGGACTGTGTCTGGGACAATGATGTAGAC

TATCCTGAGTATCCTCCTCTGATCCTGGATTATCCTTTCAGCTGGTTCTGCCAGTGTG 181

GAAGGAGACCAAAGGATAACCAGTGTCCAATCTGGGAGTAAGCTGATCTTGGCTTGTCT 241

GGGAGGGGAATTTAGCCCTGGGGTCAGAGGATGCACAAGCCACTTGTCTTGGTGGCAAG 301

CTCGTCGAAGTCGATGGCAAAGAATGGAATATAGTCGAACTCGGCTGCACAAAAATGGCA 361

TCTGAAACCATCCATAGAAACCTTGGACAATGTGGTGATCAAGACCTGGGAATTTACGAA 421

GTCATTGGTTTCGACCTTCCAACAACGGGACACTTCTATGAATTGATACGAGTTTGCTTT 481

GACCCGGCAAATGAGACCACTATTTTTTCCGAGAACATCGTTCACGGAGCCAGCATCGCC 541

GCCAAAGACATTGACCCGGGTCGTCCATCTTTCAAACATCCACTGGGTTCTTCAGTGTA 601

TCGATGATATCTGTCTATTTCGCAAAGAAGTCAGCTGGAGCTCATGAAGAACCTCTTAGGA 661

GATGATGAATTAGCTGCGACAATCATCGATCCTTCAGAGCAGTTCTACTTTGCTAAAGGA 721

CATATGGCT**GCT**GACGCGGACTTTGTGACAGTAGTTGAGCAGGACGCAACATACTATTAC 781

ATCAACGCGTTGCCTCAATGGCAGGCCTTTAACAATGGAACTGGAAGTACTTGGAATAC 841

GACACCCGTGACCTGGCTGAAAAACATGGCACTGACCTGACCGTCTACAGTGGTGGCTGG 901

GGGGTTCTAGAGCTTGAAGACATCAACGGAAACCCCGTTGAAATCTATCTTGGCCTCGCC 961

CAGGACAAAAAAGTTGTCCCTGCTCCTGCATTAACATGGAAGGTGATCTATGAGAAGGAC 1021

ACTAACCGAGCTGCTGCTATTGTTGGAATAAACAACCCCAACATCACCACGGCACCAGAA 1081

CCTCTTTGTACCGACATCTGCTCCAGCCTCACATGGCTGGACTTTGATTTTGGGGACCTT 1141

GTCCATGGCTACACCTACTGCTGCTCTGTAGCTGATCTCAGGGCAGCCATTCCCAATGTT 1201

CCAGATTTAGGAGACGTTGATATCTTAGACGAATAA

Figure 5

cagtcagaactgttgaggagcaATGATAGGCCGGACCACTTTCATAGCTTTATTTCGTAAAA	61
M I G R T T F I A L F V K	13
GTTCTGACTATTTGGAGCTTTACCAAAGGTGAGGACTGTGTCTGGGACAATGATGTAGAC	121
V L T I W S F T K G E D C V W D N D V D	33
TATCCTGAGTATCCTCCTCTGATCCTGGATTTCATCCTTTCAGCTGGTTCTGCCAGTGTG	181
Y P E Y P P L I L D S S F Q L V L P V L	53
GAAGGAGACCAAAGGATAACCAAGTGTCCAATCTGGGAGTAAGCTGATCTTGGCTTGTCT	241
E G D Q R I T S V Q S G S K L I L A C P	73
GGGAGGGGAATTTTCAGCCCTGGGGTCAGAGGATGCACAAGCCACTTGTCTTGGTGGCAAG	301
G R G I S A L G S E D A Q A T C L G G K	93
CTCGTCGAAGTCGATGGCAAAGAATGGAATATAGTCGAACTCGGCTGCACAAAAATGGCA	361
L V E V D G K E W N I V E L G C T K M A	113
TCTGAAACCATCCATAGAAACCTTGGACAATGTGGTGATCAAGACCTGGGAATTTACGAA	421
S E T I H R N L G Q C G D Q D L G I Y E	133
GTCATTGGTTTCGACCTTCCAACAACGGGACACTTCTATGAATTGATACGAGTTTGCTTT	481
V I G F D L P T T G H F Y E L I R V C F	153
GACCCGGCAAATGAGACCACTATTTTTTCCGAGAACATCGTTCACGGAGCCAGCATCGCC	541
D P A N E T T I F S E N I V H G A S I A	173
GCCAAAGACATTGACCCGGGTGCTCCATCTTTCAAACATCCACTGGGTCTTTCAGTGTA	601
A K D I D P G R P S F K T S T G F F S V	193
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S M I S V Y S Q R S Q L E L M K N L L G	213
GATGATGAATTAGCTGCGACAATCATCGATCCTTCAGAGCAGTTCTACTTTGCTAAAGGA	721
D D E L A A T I I D P S E Q F Y F A K G	233
CATATGGCT GCT GACGCGGACTTTGTGACAGTAGTTGAGCAGGACGCAACATACTATTAC	781
H M A A D A D F V T V V E Q D A T Y Y Y	253
ATCAACGCGTTGCCTCAATGGCAGGCCTTTAACAATGGAACTGGAAGTACTTGAATAC	841
I N A L P Q W Q A F N N G N W K Y L E Y	273
GACACCCGTGACCTGGCTGAAAAACATGGCACTGACCTGACCGTCTACAGTGGTGGCTGG	901
D T R D L A E K H G T D L T V Y S G G W	293
GGGGTTCTAGAGCTTGAAGACATCAACGGAAACCCGTTGAAATCTATCTTGGCCTCGCC	961
G V L E L E D I N G N P V E I Y L G L A	313
CAGGACAAAAAAGTTGTCCCTGCTCCTGCATTAACATGGAAGGTGATCTATGAGAAGGAC	1021
Q D K K V V P A P A L T W K V I Y E K D	333

Figure 6a

ACTAACCGAGCTGCTGCTATTGTTGGAATAAACAACCCCCACATCACCACGGCACCAGAA	1081
T N R A A A I V G I N N P H I T T A P E	353
CCTCTTTGTACCGACATCTGCTCCAGCCTCACATGGCTGGACTTTGATTTTGGGGACCTT	1141
P L C T D I C S S L T W L D F D F G D L	373
GTCCATGGCTACACCTACTGCTGCTCTGTAGCTGATCTCAGGGCAGCCATTCCCAATGTT	1201
V H G Y T Y C C S V A D L R A A I P N V	393
CCAGATTTAGGAGACGTTGATATCTTAGACGAATAAaagatattcacgtactacaacccat	1261
P D L G D V D I L D E *	404
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aatcgcaatttttggttcattacaagtataatacttatcttattacaatttcgagtacgat	1441
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tcatactctggatatccagatattatgcacacaaaatgtcaagtcctcctgcctgcttctt	1681
tggaaagatgtgcataatgcacgcacatgtaaccatgagattcacaaaatgtaatcatctc	1741
ttatcaaaacctaatacagtcattcaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	1791

Figure 6b

1 EDCVWDNDVDYPEYPPILDSSFQLVLPVLEGDQRITSVQSGSKLLILACPGRGISALGSE
61 DAQATCLGGKLVVDGKEWNIVELGCTKMASETIHRNLGQCGDQDLGIYEVIIGFDLPTTG
121 HFYELIRVCFDPANETTIFSENI VHGASIAAKDIDPGRPSFKTSTGFFSVSMISVYSQRS
181 QLELMKNLLGDDELAATIIDPSEQFYFAKGHMAPDADFVTVVEQDATYYYINALPQWQAF
241 NNGNWKYLEYDTRDLAEKHGTDLTVYSGGWGVLELEDINGNPVEIYILGLAQDKKVVPPAPA
301 L TWKVIYEKDTNRAAAIVGINNPHITTAPEPLCTDICS SLTWLDFDFGLVHGTYTYCCSV
361 ADLRAAIPNV PDLG DVDILDE

Figure 7

GAGGACTGTGTCTGGGACAATGATGTAGAC

TATCCTGAGTATCCTCCTCTGATCCTGGATTTCATCCTTTCAGCTGGTCTGCCAGTGTTG 181

GAAGGAGACCAAAGGATAACCAGTGTCCAATCTGGGAGTAAGCTGATCTTGGCTTGTCTT 241

GGGAGGGGAATTTAGCCCTGGGGTCAGAGGATGCACAAGCCACTTGTCTTGGTGGCAAG 301

CTCGTCGAAGTCGATGGCAAAGAATGGAATATAGTCGAACTCGGCTGCACAAAAATGGCA 361

TCTGAAACCATCCATAGAAACCTTGGACAATGTGGTGATCAAGACCTGGGAATTTACGAA 421

GTCATTGGTTTCGACCTTCCAACAACGGGACACTTCTATGAATTGATACGAGTTTGCTTT 481

GACCCGGCAAATGAGACCACTATTTTTTCCGAGAACATCGTTCACGGAGCCAGCATCGCC 541

GCCAAAGACATTGACCCGGGTCGTCCATCTTCAAACATCCACTGGGTTCTTCAGTGTA 601

TCGATGATATCTGTCTATTTCGCAAAGAAGTCAGCTGGAGCTCATGAAGAACCTCTTAGGA 661

GATGATGAATTAGCTGCGACAATCATCGATCCTTCAGAGCAGTTCTACTTTGCTAAAGGA 721

CATATGGCTCCTGACGCGGACTTTGTGACAGTAGTTGAGCAGGACGCAACATACTATTAC 781

ATCAACGCGTTGCCTCAATGGCAGGCCTTTAACAATGGAACTGGAAGTACTTGAATAC 841

GACACCCGTGACCTGGCTGAAAAACATGGCACTGACCTGACCGTCTACAGTGGTGGCTGG 901

GGGGTTCTAGAGCTTGAAGACATCAACGGAAACCCCGTTGAAATCTATCTTGGCCTCGCC 961

CAGGACAAAAAGTTGTCCCTGCTCCTGCATTAACATGGAAGGTGATCTATGAGAAGGAC 1021

ACTAACCGAGCTGCTGCTATTGTTGGAATAAACACCCCCACATCACCACGGCACCAGAA 1081

CCTCTTTGTACCGACATCTGCTCCAGCCTCACATGGCTGGACTTTGATTTTGGGGACCTT 1141

GTCCATGGCTACACCTACTGCTGCTCTGTAGCTGATCTCAGGGCAGCCATTCCCAATGTT 1201

CCAGATTTAGGAGACGTTGATATCTTAGACGAATAA

Figure 8

cagtcagaactgttgaggagcaATGATAGGCCGGACCACTTTCATAGCTTTATTCGTAAAA	61
M I G R T T F I A L F V K	13
GTTCTGACTATTTGGAGCTTTACCAAAGGTGAGGACTGTGTCTGGGACAATGATGTAGAC	121
V L T I W S F T K G E D C V W D N D V D	33
TATCCTGAGTATCCTCCTCTGATCCTGGATTTCATCCTTTTCTGCTGGCAGTGTG	181
Y P E Y P P L I L D S S F Q L V L P V L	53
GAAGGAGACCAAAGGATAACCAAGTGTCCAATCTGGGAGTAAGCTGATCTTGGCTTGTCT	241
E G D Q R I T S V Q S G S K L I L A C P	73
GGGAGGGGAATTTTCAGCCCTGGGGTCAGAGGATGCACAAGCCACTTGTCTTGGTGGCAAG	301
G R G I S A L G S E D A Q A T C L G G K	93
CTCGTCGAAGTCGATGGCAAAGAATGGAATATAGTCGAACTCGGCTGCACAAAAATGGCA	361
L V E V D G K E W N I V E L G C T K M A	113
TCTGAAACCATCCATAGAAACCTTGGACAATGTGGTGATCAAGACCTGGGAATTTACGAA	421
S E T I H R N L G Q C G D Q D L G I Y E	133
GTCATTGGTTTCGACCTTCCAACAACGGGACACTTCTATGAATTGATACGAGTTTGCTTT	481
V I G F D L P T T G H F Y E L I R V C F	153
GACCCGGCAAATGAGACCACTATTTTCCGAGAACATCGTTCACGGAGCCAGCATCGCC	541
D P A N E T T I F S E N I V H G A S I A	173
GCCAAAGACATTGACCCGGGTGCTCCATCTTTCAAACATCCACTGGGTTCCTCAGTGTA	601
A K D I D P G R P S F K T S T G F F S V	193
TCGATGATATCTGTCTATTTCGCAAAGAAGTCAGCTGGAGCTCATGAAGAACCTCTTAGGA	661
S M I S V Y S Q R S Q L E L M K N L L G	213
GATGATGAATTAGCTGCGACAATCATCGATCCTTCAGAGCAGTTCTACTTTGCTAAAGGA	721
D D E L A A T I I D P S E Q F Y F A K G	233
CATATGGCT CCT GACGCGGACTTTGTGACAGTAGTTGAGCAGGACGCAACATACTATTAC	781
H M A P D A D F V T V V E Q D A T Y Y Y	253
ATCAACGCGTTGCCTCAATGGCAGGCCCTTTAACAATGGAACTGGAAGTACTTGAATAC	841
I N A L P Q W Q A F N N G N W K Y L E Y	273
GACACCCGTGACCTGGCTGAAAAACATGGCACTGACCTGACCGTCTACAGTGGTGGCTGG	901
D T R D L A E K H G T D L T V Y S G G W	293
GGGGTTCTAGAGCTTGAAGACATCAACGGAAACCCGTTGAAATCTATCTTGGCCTCGCC	961
G V L E L E D I N G N P V E I Y L G L A	313
CAGGACAAAAAGTTGTCCCTGCTCCTGCATTAAACATGGAAGGTGATCTATGAGAAGGAC	1021
Q D K K V V P A P A L T W K V I Y E K D	333

Figure 9a

ACTAACCGAGCTGCTGCTATTGTTGGAATAAACACCCCCACATCACCACGGCACCAGAA	1081
T N R A A A I V G I N N P H I T T A P E	353
CCTCTTTGTACCGACATCTGCTCCAGCCTCACATGGCTGGACTTTGATTTTGGGGACCTT	1141
P L C T D I C S S L T W L D F D F G D L	373
GTCCATGGCTACACCTACTGCTGCTCTGTAGCTGATCTCAGGGCAGCCATTCCCAATGTT	1201
V H G Y T Y C C S V A D L R A A I P N V	393
CCAGATTTAGGAGACGTTGATATCTTAGACGAATAAaagatattcacgtactacaaccat	1261
P D L G D V D I L D E *	404
acaaagagagtgattgctgtacctttaactaaaggctctggacctggtaacatgcttatgt	1321
agttaatgggtgtcgaggaattcatcaatcagagragaaactacttcaaagagggaaaaatt	1381
aatcgcaattttttgttcattacaagtataatacttatcttattacaatttcgagtacgat	1441
tttaaaggatakacccacacacttatgcacaaagtgtatcatcaagttatacagtcttcat	1501
taaaacataagcagtcattacggcatgtttcattcagaagttttcaagatattgattgcc	1561
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tggaaagatgtgcatatgcacgcacatgtaaccatgagattcacaaaatgtaatcatctc	1741
ttaatcaaaacctaatacagtcattcaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	1791

Figure 9b

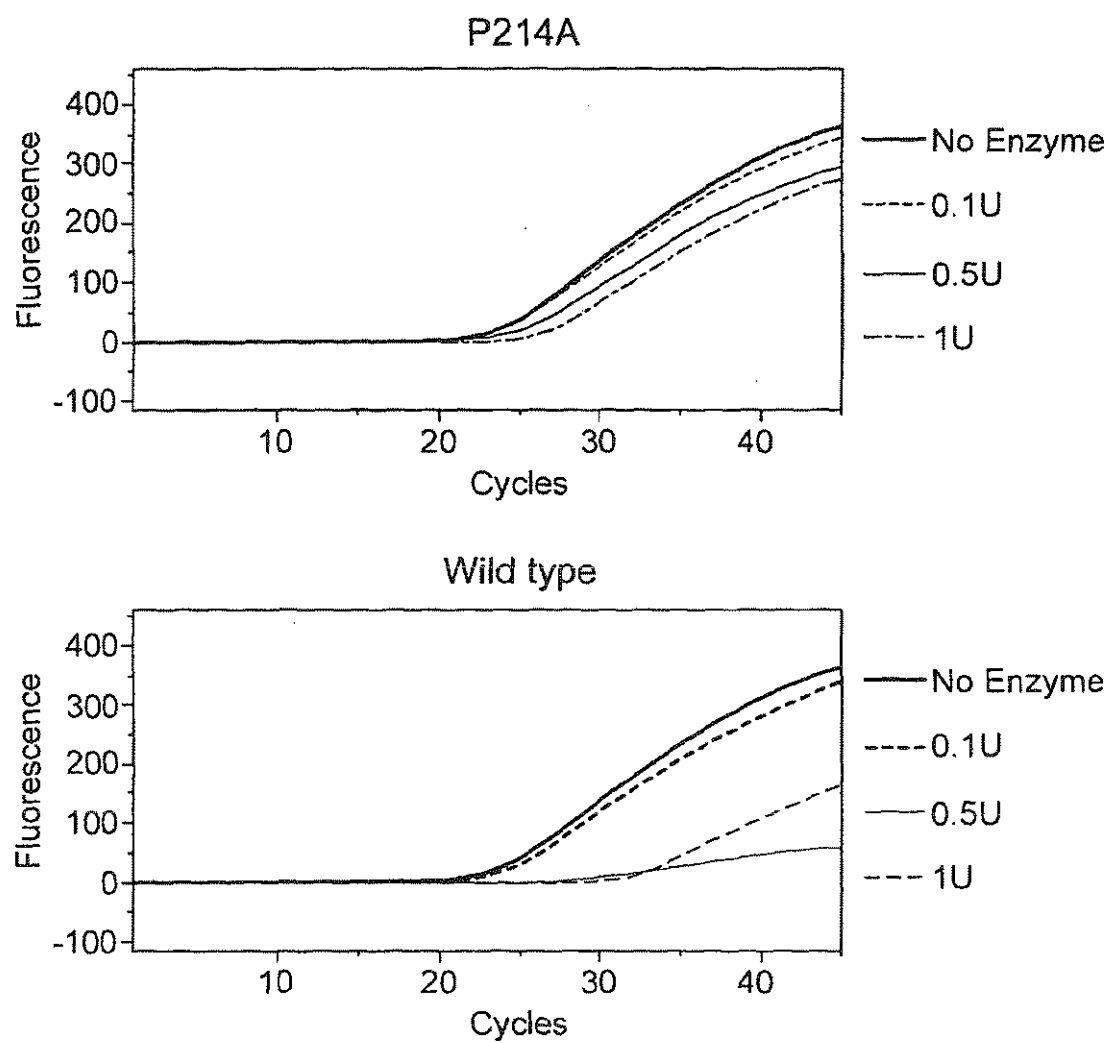


Figure 10

Arctic Shrimp	1	EDCVW	N	D	V	D	V	D	Y	P	E	P	P	L	I	D	S	S	F	Q	L	V	L	P	V	L	E	G	D	Q	R	I	T	S	V	Q	S	G	K	L	I	L	A	C	P	R	G	I	S	A	L	G	S	E				
King crab	27	QDCV	W	D	K	D	T	D	F	P	E	D	P	P	L	I	F	D	S	N	L	E	L	I	R	P	V	I	E	N	G	K	R	I	V	S	V	P	S	G	S	S	L	T	L	A	C	S	G	S	E	L	I	N	L	G	M	E
		*****	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Arctic King	61	DAQAT	C	L	G	G	K	L	V	E	D	G	K	E	W	N	I	V	E	L	G	C	T	K	M	A	S	E	T	I	H	R	N	L	G	C	G	D	Q	D	L	G	I	E	V	I	E	I	C	F	D	L	P	T	T	G		
	87	AVEAK	C	A	G	G	V	M	L	A	E	G	T	E	W	I	S	L	G	C	S	N	H	V	K	E	T	I	R	R	N	L	G	T	C	C	E	A	D	Q	C	D	R	H	S	I	G	F	E	Y	Y	G	G	S				
		* * *	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Arctic King	121	HFYEL	I	R	V	C	F	D	P	A	N	E	T	I	F	S	E	N	I	V	H	G	A	S	I	A	A	K	D	I	D	P	G	R	P	S	F	K	T	S	T	G	F	F	S	V	S	M	I	S	V	S	Q	R	S			
	147	IYYEL	I	S	V	C	F	G	P	V	S	E	T	T	L	R	T	E	H	V	L	H	G	A	N	I	A	A	K	D	I	E	T	S	R	P	S	F	K	T	S	T	G	F	F	S	V	S	M	S	T	V	S	Q	A	S		
		*****	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Arctic King	181	QLELM	K	N	L	L	G	D	D	E	L	A	A	T	I	I	D	P	S	E	Q	F	Y	F	A	K	G	H	M	A	P	D	A	D	F	V	T	V	E	Q	D	A	T	Y	Y	I	N	A	L	P	Q	W	Q	A	F			
	207	QLQMT	D	I	L	G	S	D	L	A	N	N	I	I	D	P	S	Q	L	Y	F	A	K	G	H	M	S	P	D	A	D	F	V	T	V	A	E	Q	D	A	T	Y	Y	I	N	A	L	P	Q	W	Q	A	F					
		** ** *	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Arctic King	241	NNGN	W	K	Y	L	E	Y	D	T	R	D	L	A	E	K	H	G	T	D	L	T	V	Y	S	G	G	W	G	V	L	E	D	I	N	G	N	P	V	E	I	Y	L	G	L	A	Q	D	K	K	V	V	P	A				
	267	NNGN	W	K	Y	L	E	Y	A	T	R	D	L	A	E	S	H	G	S	D	L	R	V	Y	S	G	G	W	S	L	L	Q	L	D	D	I	N	G	N	P	V	D	I	L	L	G	L	S	E	G	K	E	V	V	P			
		*****	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
Arctic King	301	LTWK	V	I	E	K	D	T	N	R	A	A	I	V	G	I	N	N	P	H	I	T	T	A	P	E	P	L	C	T	D	I	C	S	S	L	T	W	L	D	F	D	F	G	D	L	V	H	G	Y	T	Y	C	C	S			
	327	LTWK	V	V	Y	E	E	S	S	K	A	A	I	V	G	I	N	N	P	H	I	T	T	A	P	S	P	L	C	S	D	L	C	S	S	L	T	W	I	D	F	N	L	D	D	L	A	H	G	Y	T	Y	C	C	A			
		*****	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Arctic King	361	ADLRA	A	I	P	N	V	P	D	L	G	D	V	I	L	D	E																																									
	387	DDLRA	I	P	I	P	D	L	G	N	V	G	L	L	T	N																																										
		***	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								

Figure 11

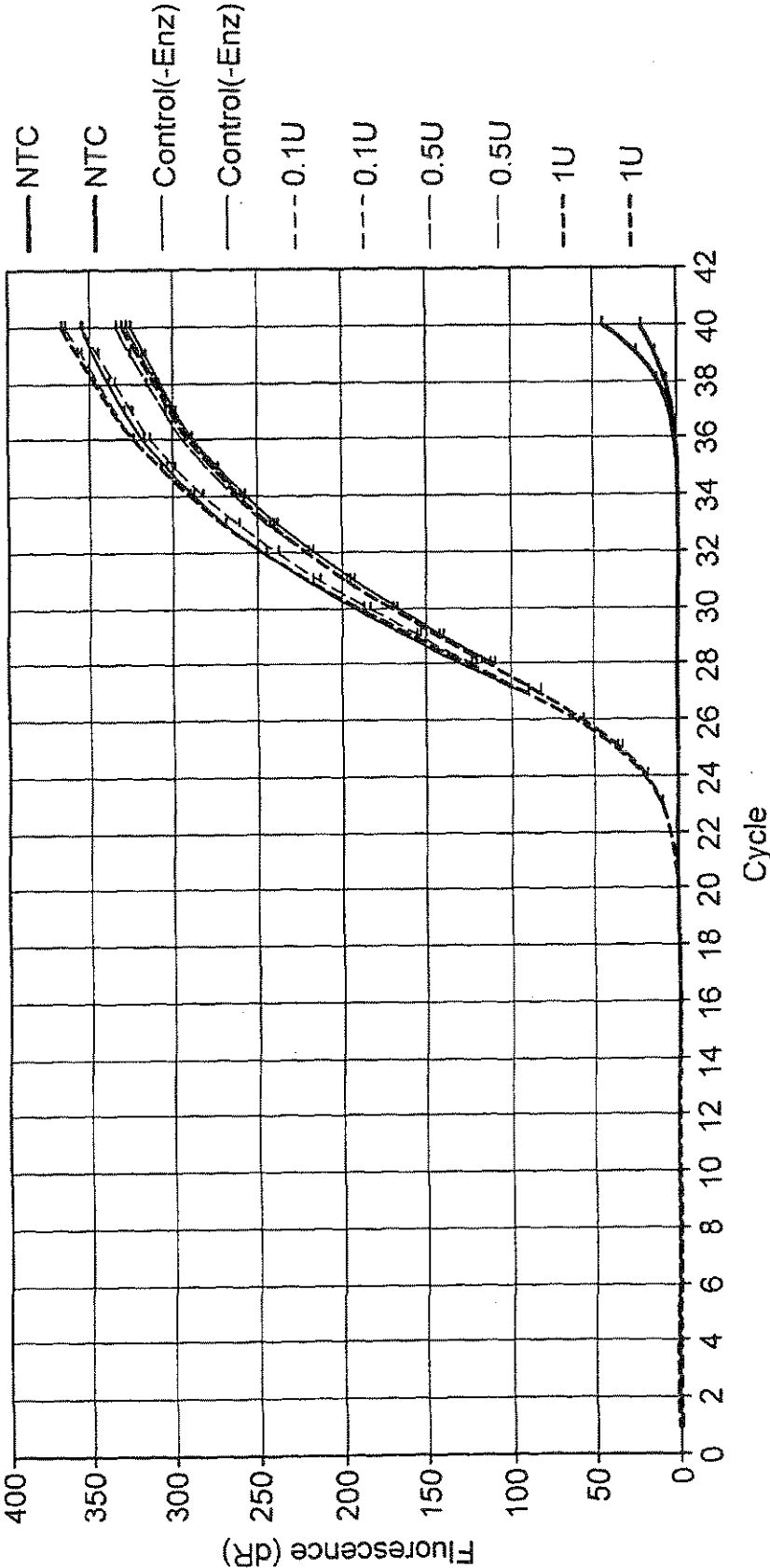


Figure 12

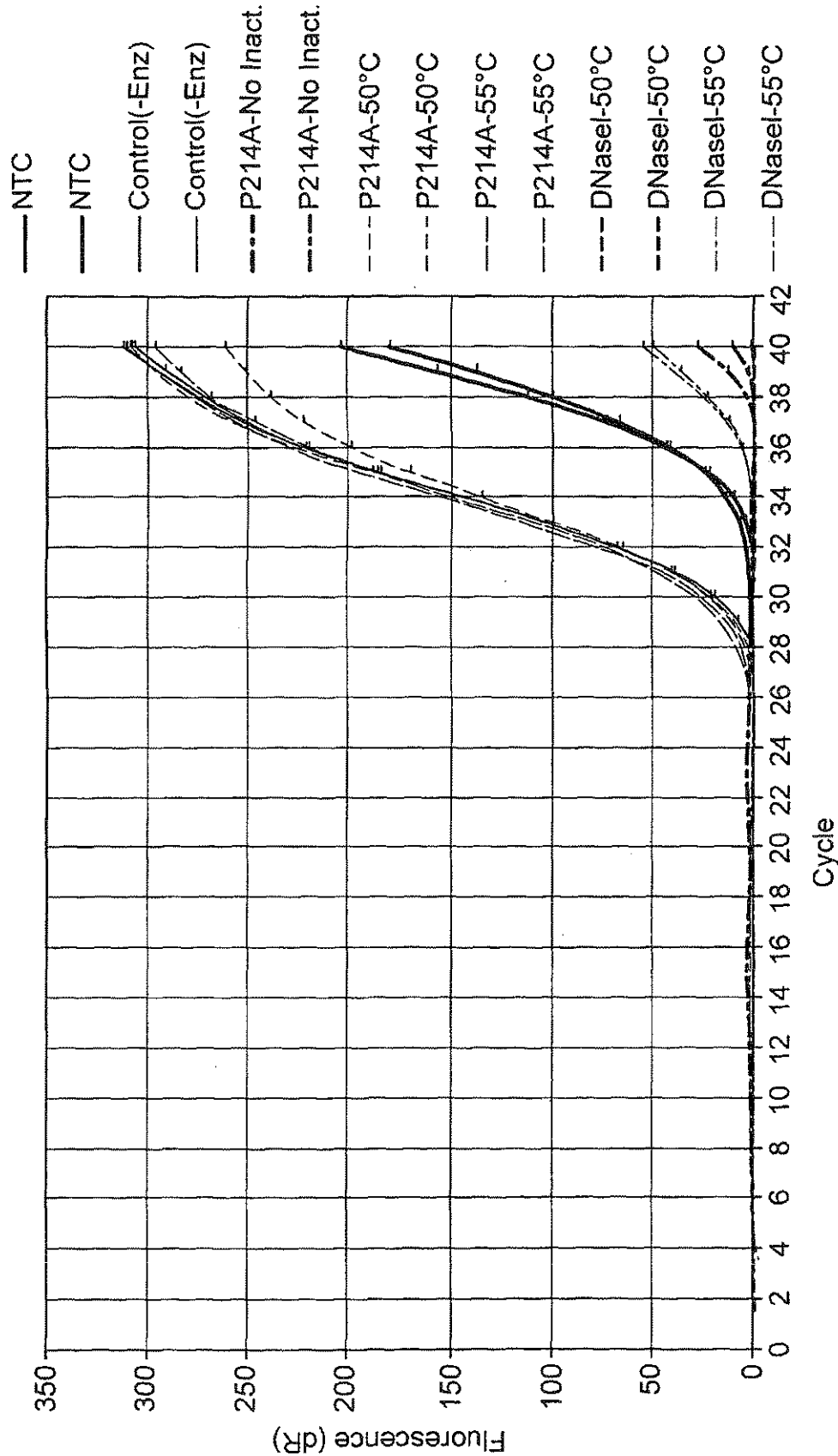


Figure 13

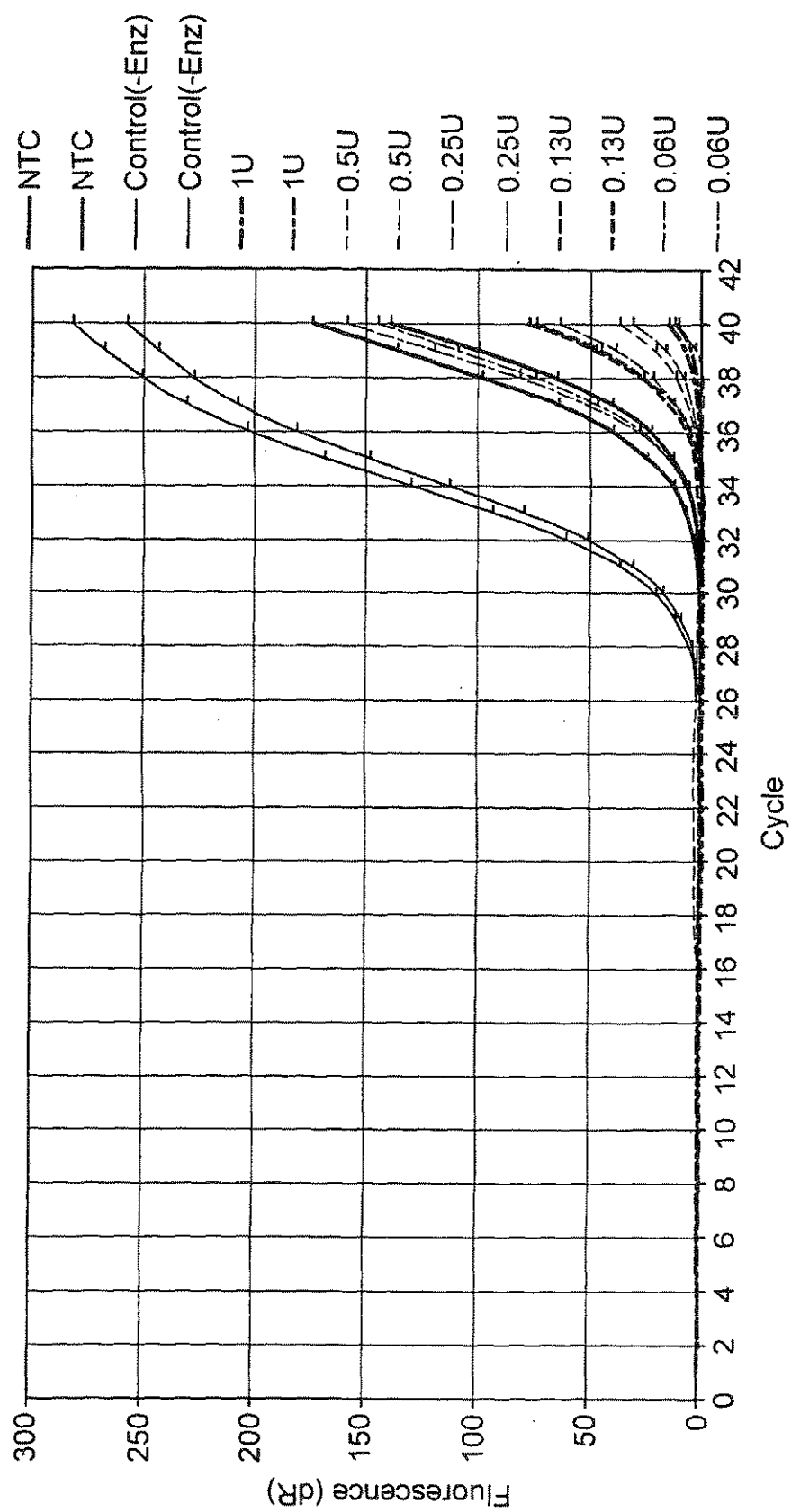


Figure 14

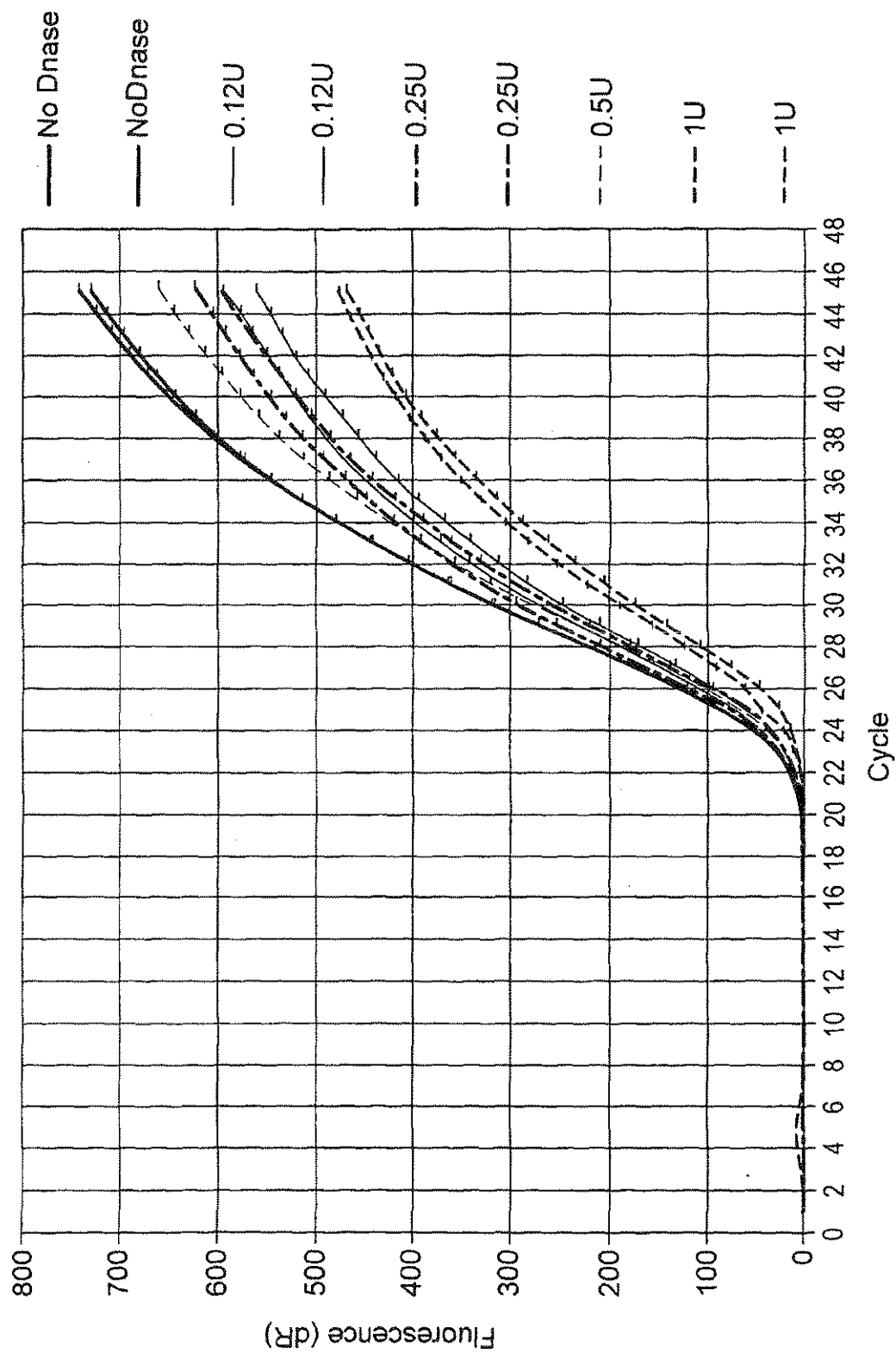


Figure 15

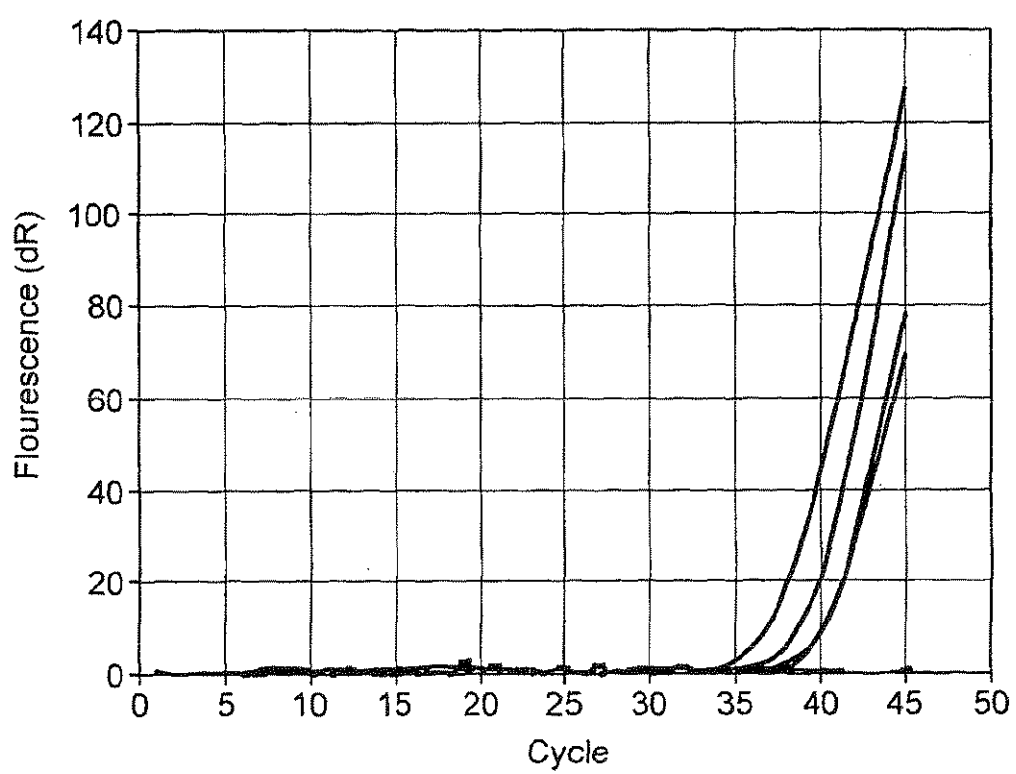


Figure 16