

PCR Kit Quality Control Certificate

Gene
<i>blaKPC (Mix 1)</i>

Table 1: Concentration in ng/μL of the sample control and its dilutions.

	1	2	3	4	5	6	7	8	9
	1×10^{-1}	1×10^{-2}	1×10^{-3}	1×10^{-4}	1×10^{-5}	1×10^{-6}	1×10^{-7}	1×10^{-8}	1×10^{-9}
N° of copies	1×10^8	1×10^7	1×10^6	1×10^5	1×10^4	1×10^3	1×10^2	1×10^1	1×10^0

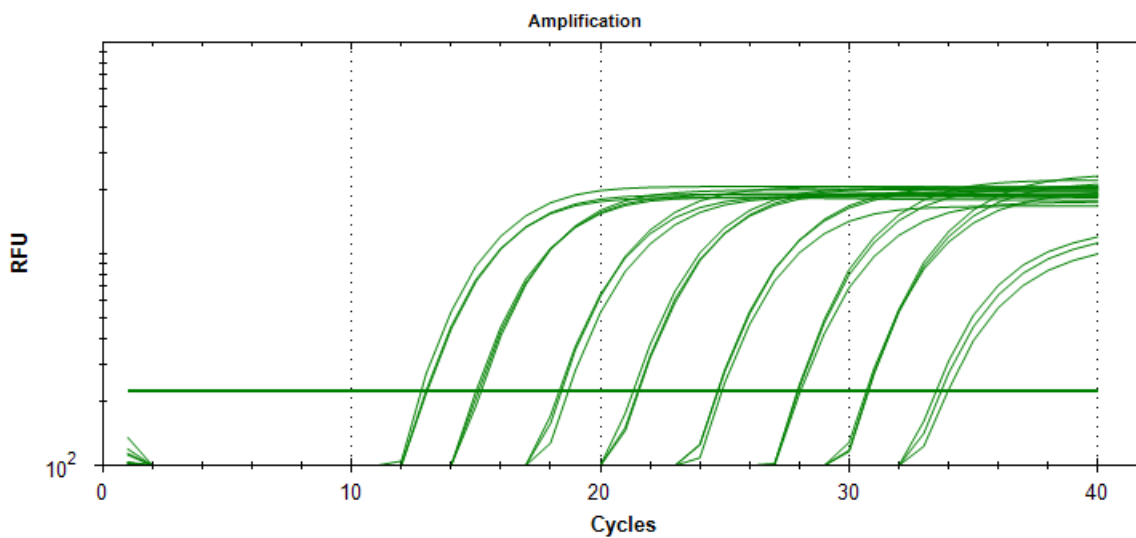


Figure 1: Logarithmic amplification curves for blaKPC (Mix 1)

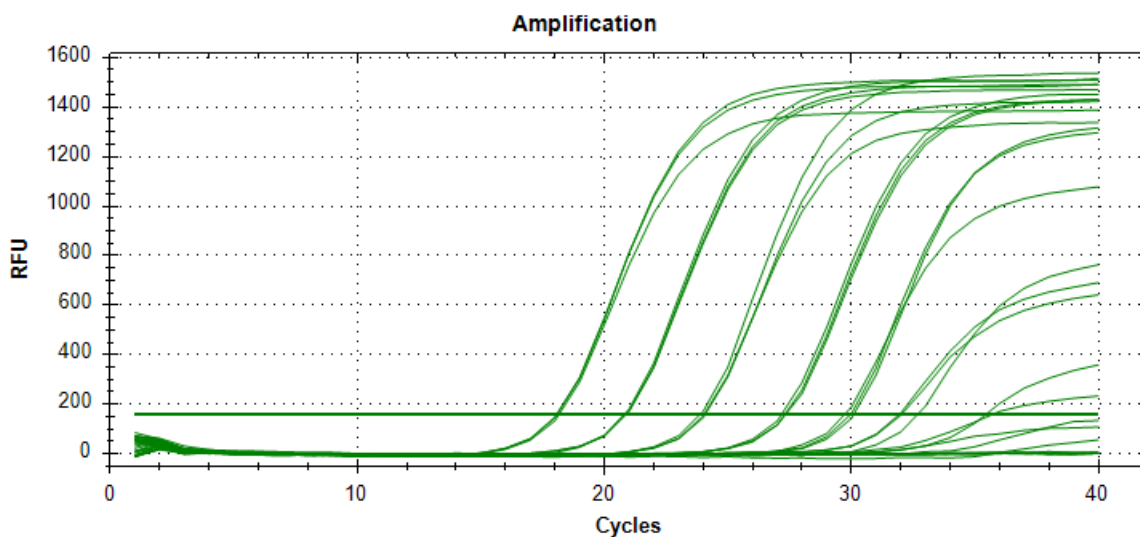


Figure 2: Standard amplification curves for blaKPC (Mix 1)

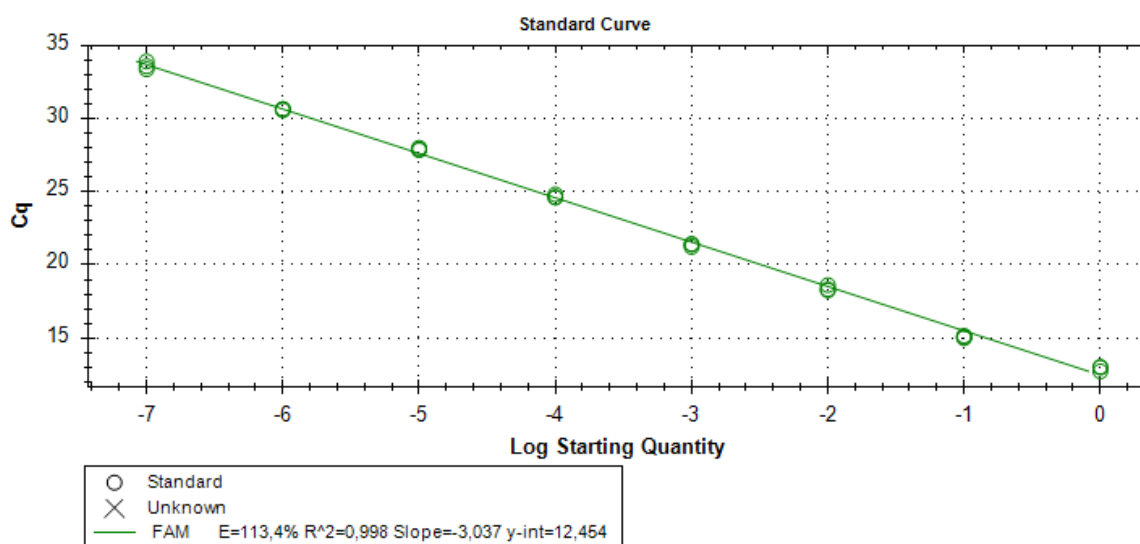


Figure 3: Standard curve for blaKPC (Mix 1)

Gene
<i>blaNDM (Mix 1)</i>

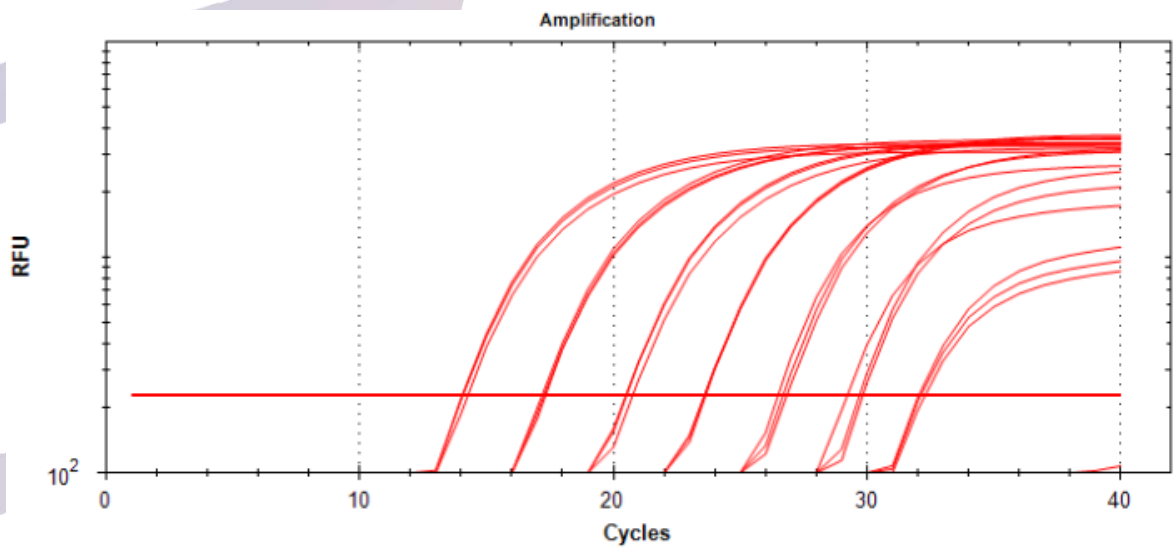


Figure 4: Logarithmic amplification curves for *blaNDM (Mix 1)*

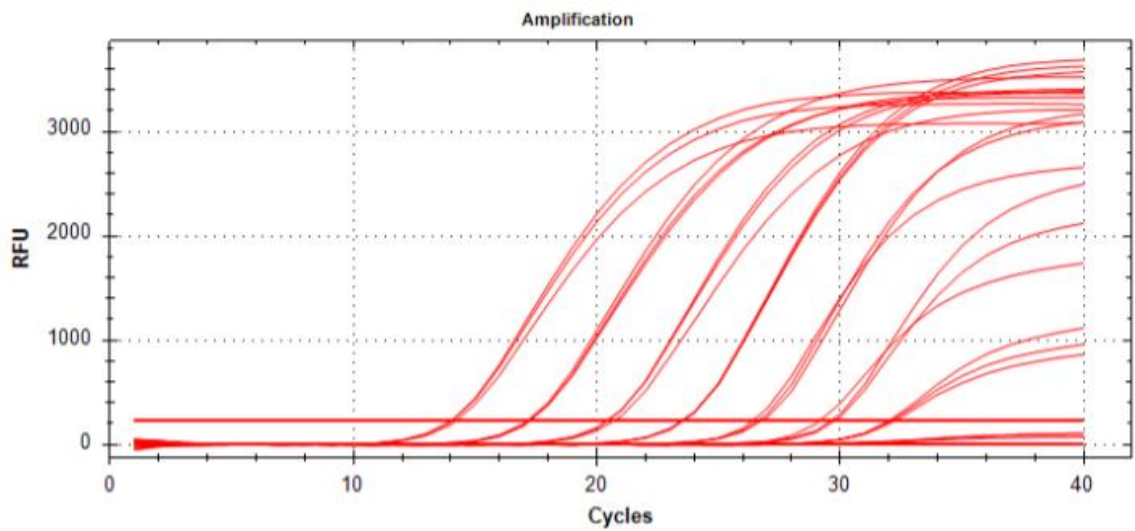


Figure 5: Standard amplification curves for *blaNDM (Mix 1)*

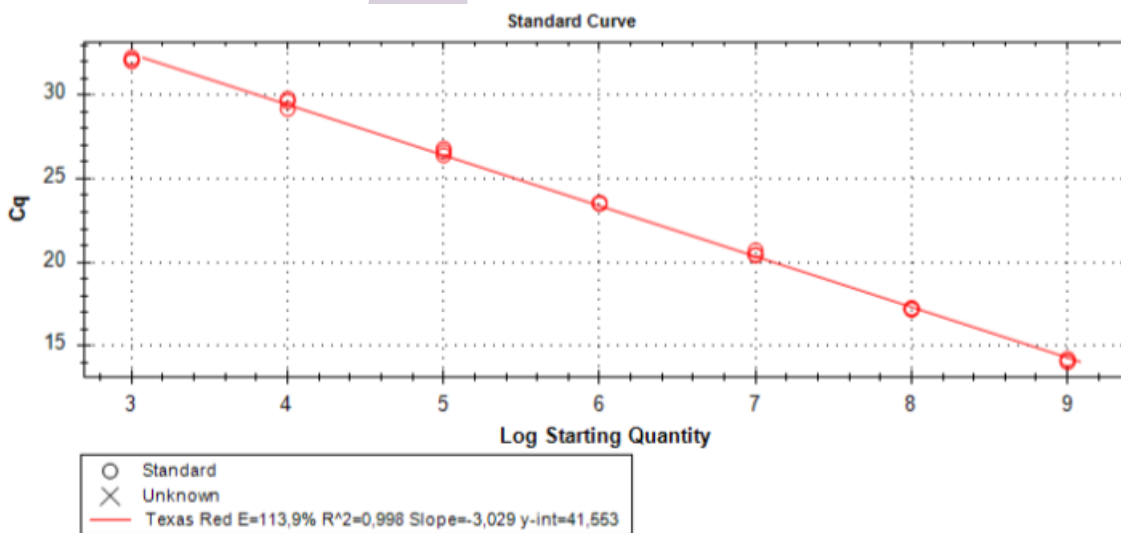


Figure 6: Standard curve for blaNDM (Mix 1)

Gene
blaVIM (Mix 1)

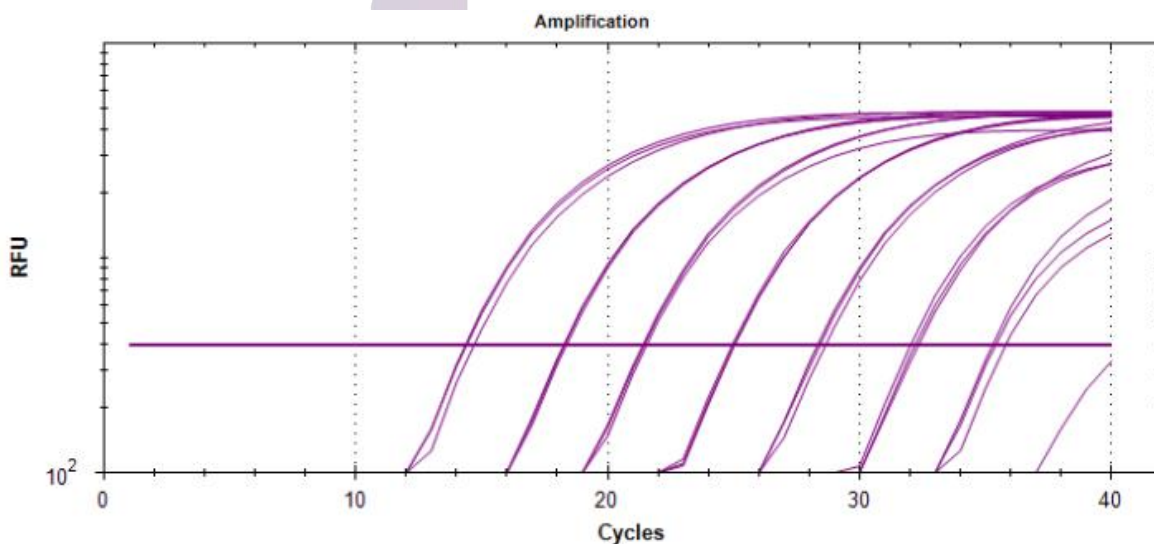


Figure 7: Logarithmic amplification curves for blaVIM (Mix 1)

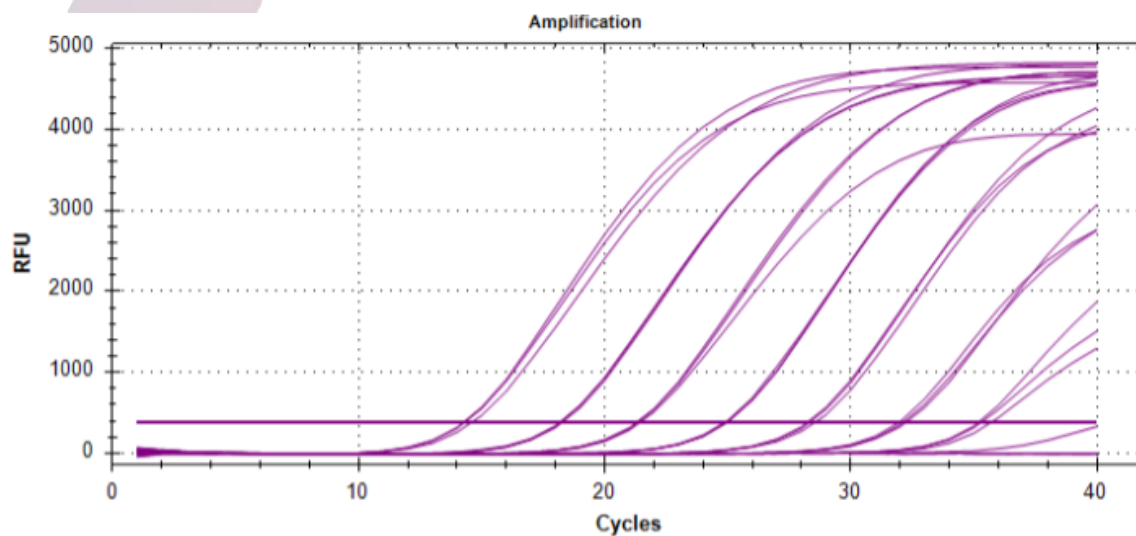


Figure 8: Standard amplification curves for blaVIM (Mix 1)

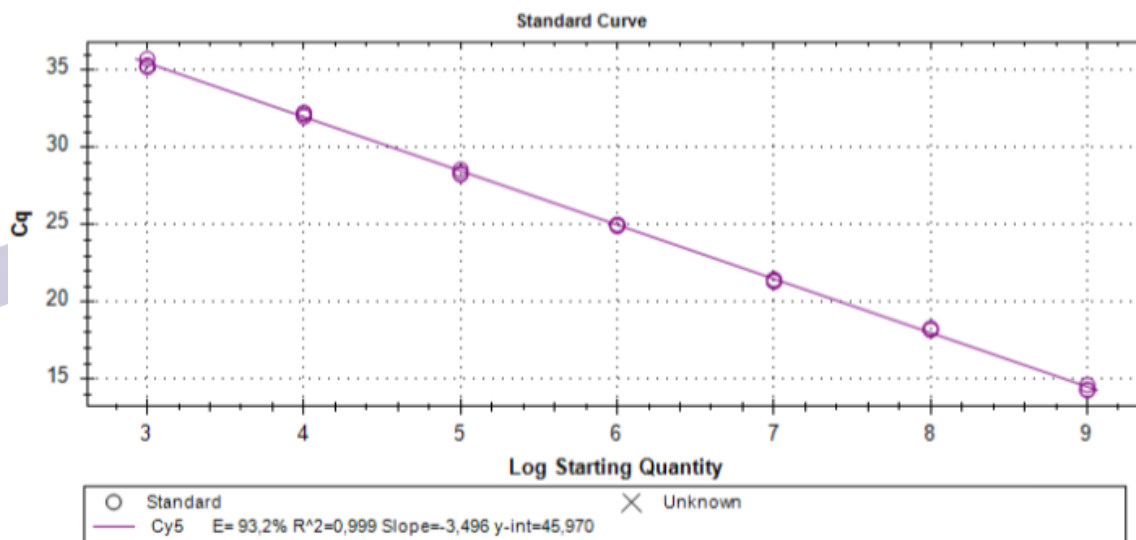


Figure 9: Standard curve for blaVIM (Mix 1)

Gene
<i>blaOXA-48 (Mix 1)</i>

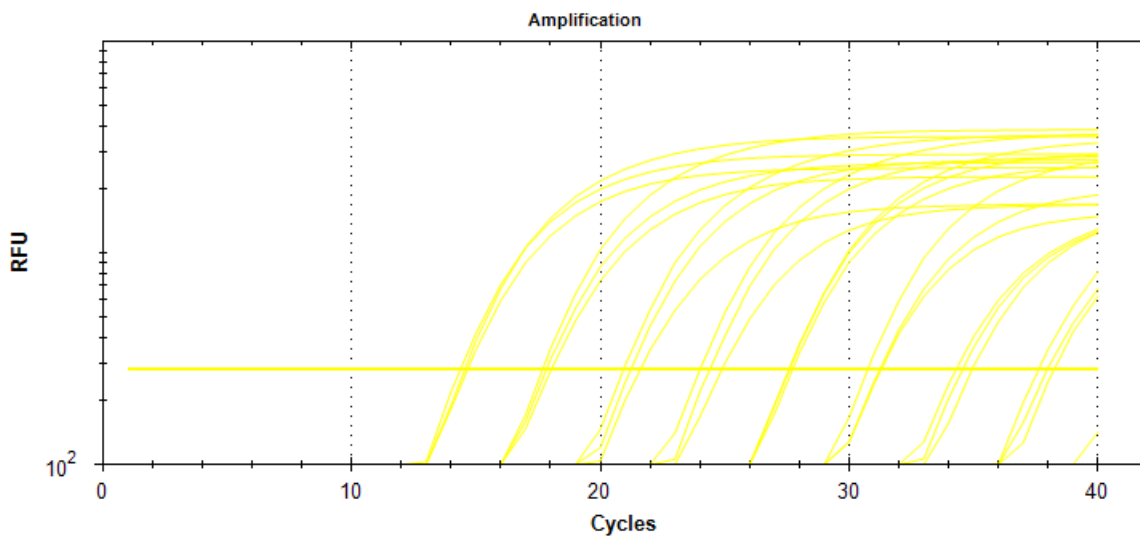


Figure 10: Logarithmic amplification curves for blaOXA-48 (Mix 1)

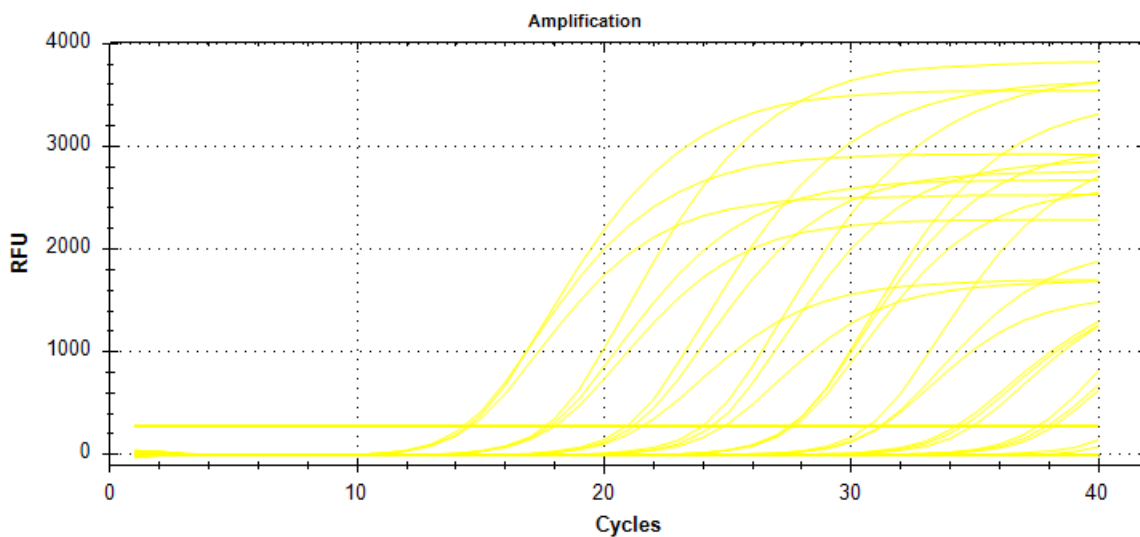


Figure 11: Standard amplification curves for blaOXA-48 (Mix 1)

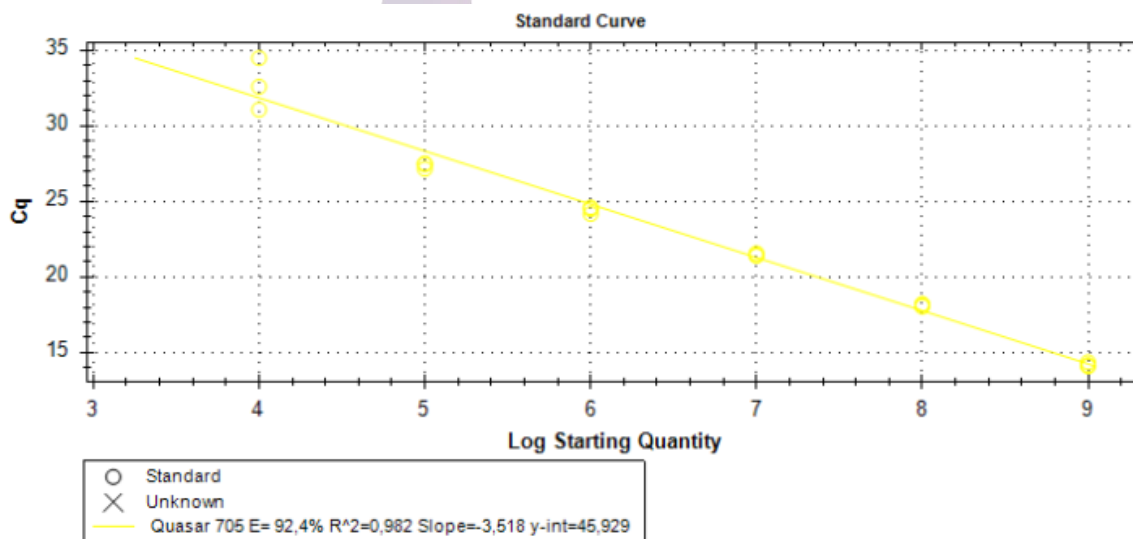


Figure 12: Standard curve for blaOXA-48 (Mix 1)

Summary of Ct values

The following table details the Ct values obtained for each sample and fluorophore of each kit of the order.

Target Name	Sample Name	Reporter	Ct values
<i>blaKPC (Mix 1)</i>	1	FAM	14,34
	2	FAM	18,65
	3	FAM	20,86
	4	FAM	24,76
	5	FAM	28,53
	6	FAM	30,28
	7	FAM	32,66
	8	FAM	34,32
	Negative Control	FAM	Undetermined

blaNDM (Mix 1)	1	ROX	12,37
	2	ROX	16,55
	3	ROX	20,69
	4	ROX	24,42
	5	ROX	26,36
	6	ROX	28,64
	7	ROX	31,23
	8	ROX	-
	Negative Control	ROX	Undetermined

Target Name	Sample Name	Reporter	Ct values
blaVIM (Mix 1)	1	CY5	12,51
	2	CY5	15,42
	3	CY5	20,25
	4	CY5	24,35
	5	CY5	28,33
	6	CY5	31,46
	7	CY5	34,28
	8	CY5	36,58
	Negative Control	CY5	Undetermined

<i>blaOXA-48 (Mix 1)</i>	1	CY5.5	14,34
	2	CY5.5	16,95
	3	CY5.5	21,42
	4	CY5.5	24,31
	5	CY5.5	26,81
	6	CY5.5	28,04
	7	CY5.5	32,26
	8	CY5.5	33,48
	Negative Control	CY5.5	Undetermined

Gene
<i>blaIMP (Mix 2)</i>

Table 2: Concentration in ng/μL of the sample control and its dilutions.

	1	2	3	4	5	6	7	8	9
	1×10^{-1}	1×10^{-2}	1×10^{-3}	1×10^{-4}	1×10^{-5}	1×10^{-6}	1×10^{-7}	1×10^{-8}	1×10^{-9}
N° of copies	1×10^8	1×10^7	1×10^6	1×10^5	1×10^4	1×10^3	1×10^2	1×10^1	1×10^0

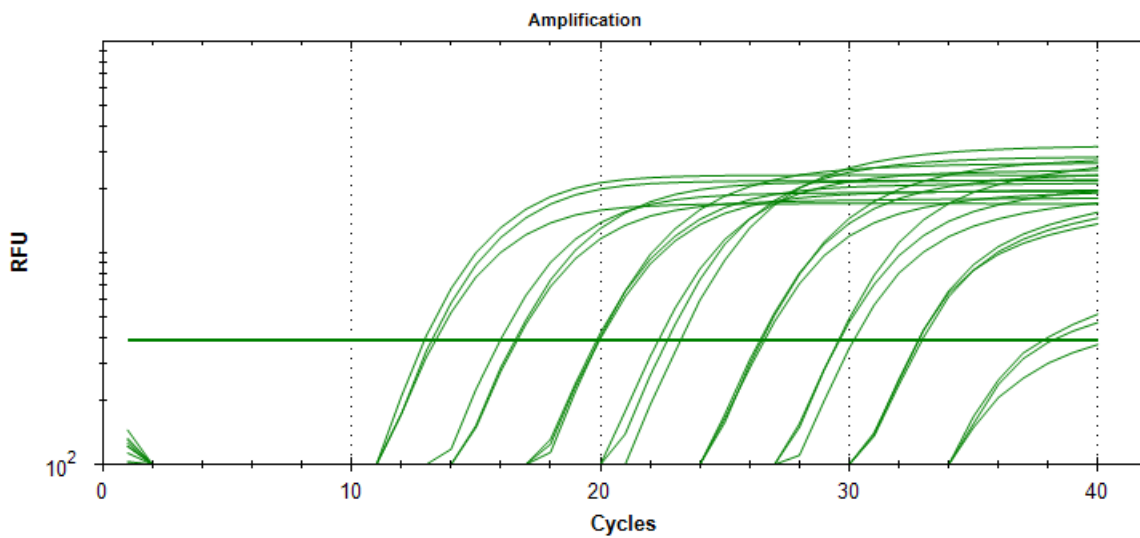


Figure 13: Logarithmic amplification curves for blaIMP (Mix 2)

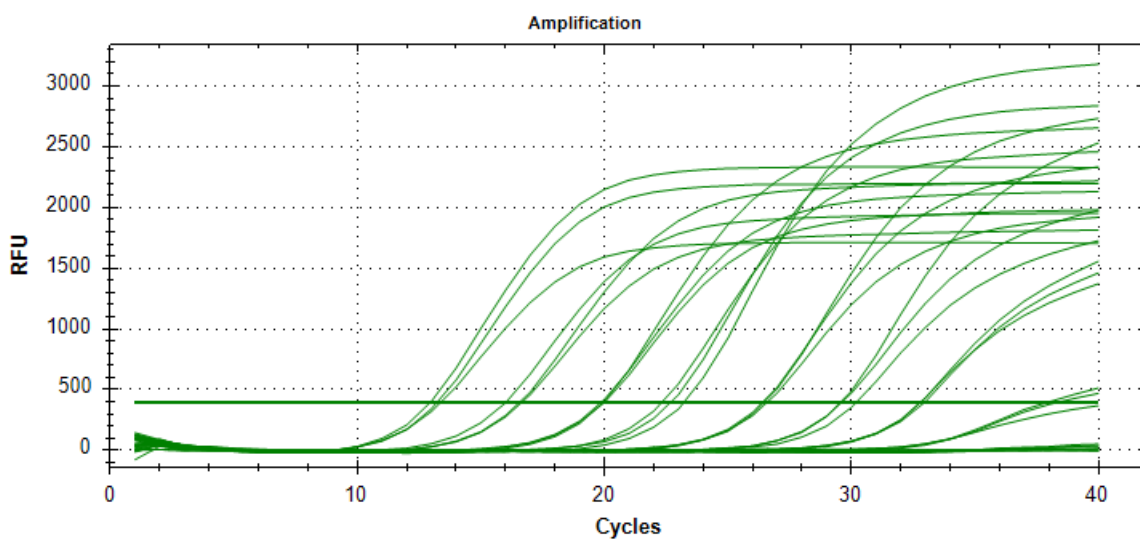


Figure 14: Standard amplification curves for blaIMP (Mix 2)

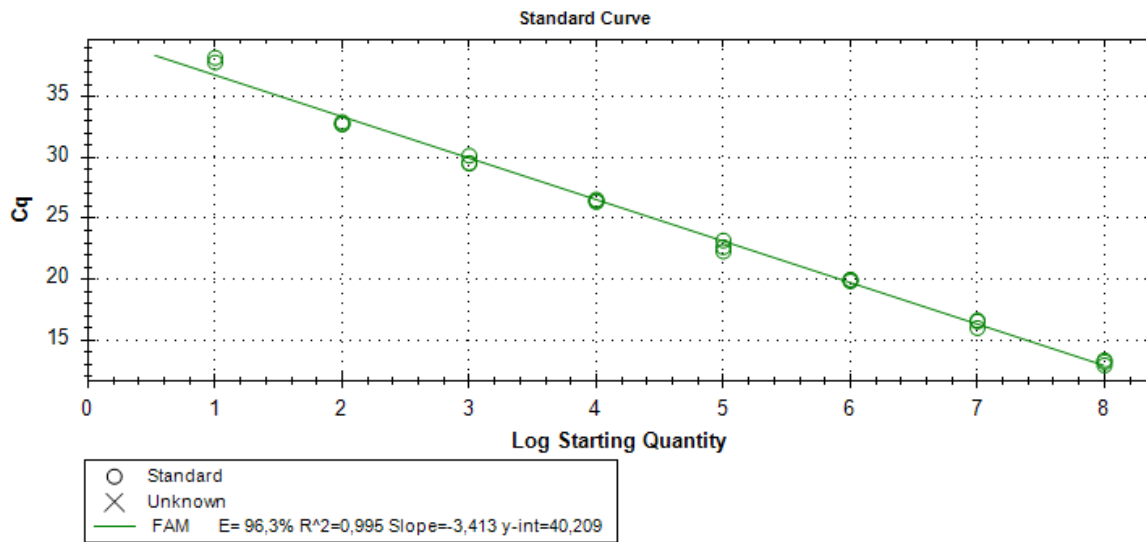


Figure 15: Standard curve for blaIMP (Mix 2)

Gene
<i>mcr-1</i> (Mix 2)

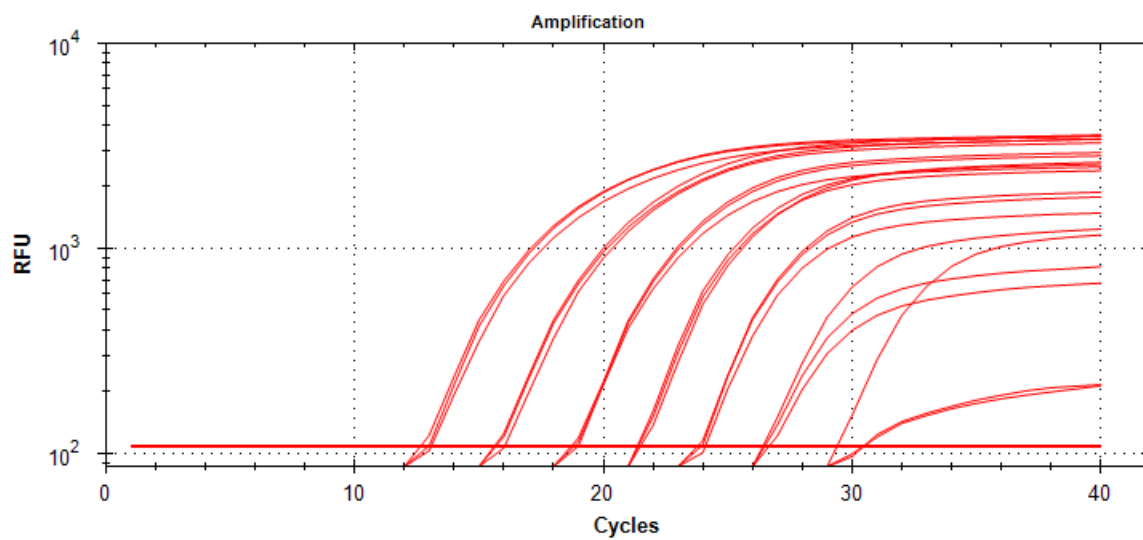


Figure 16: Logarithmic amplification curves for mcr-1 (Mix 2)

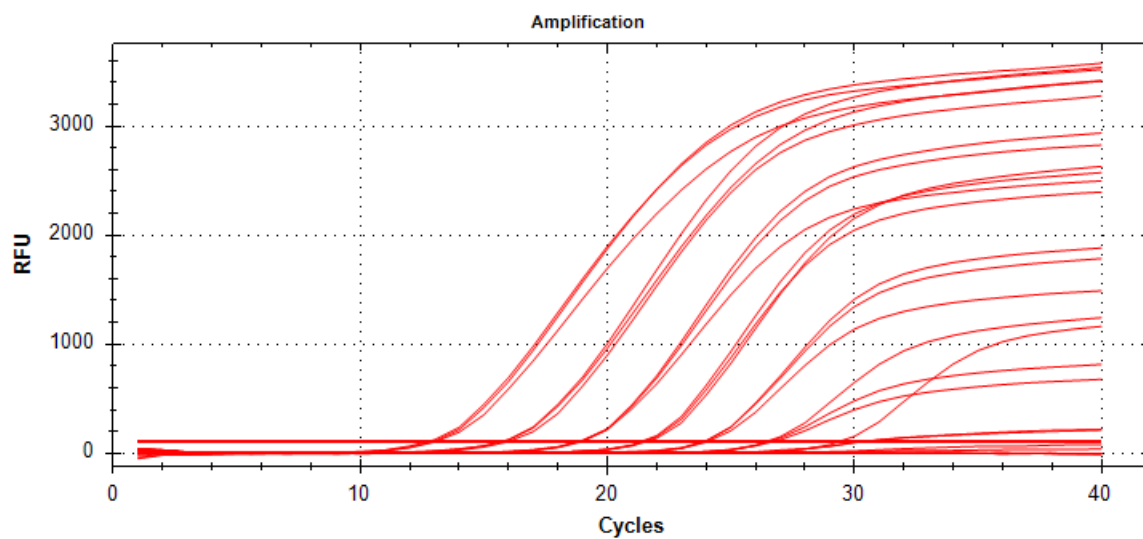


Figure 17: Standard amplification curves for mcr-1 (Mix 2)

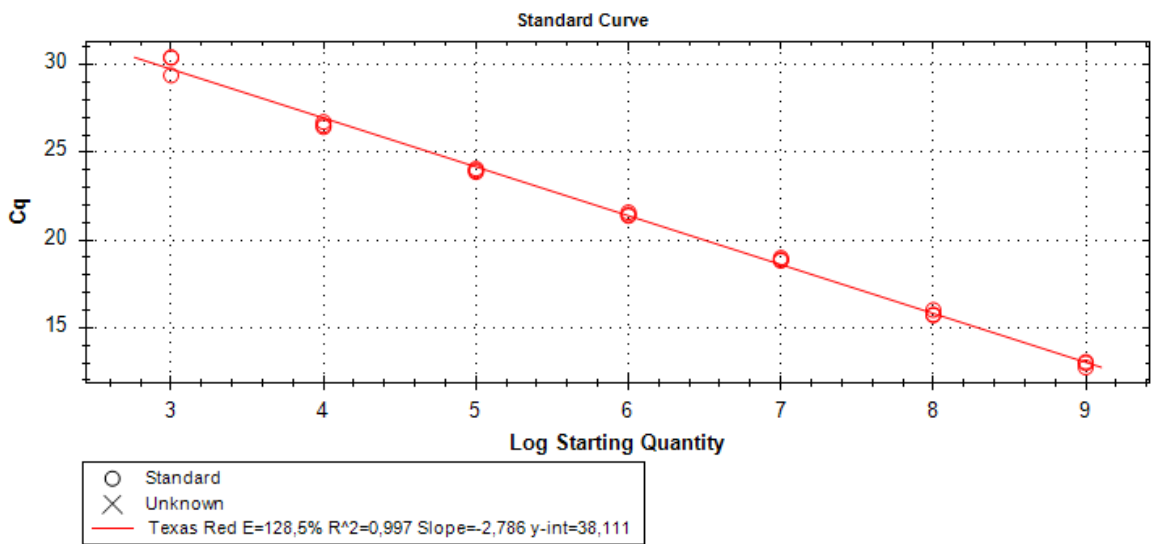


Figure 18: Standard curve for *mcr-1* (Mix 2)

Gene
<i>mecA</i> (Mix 2)

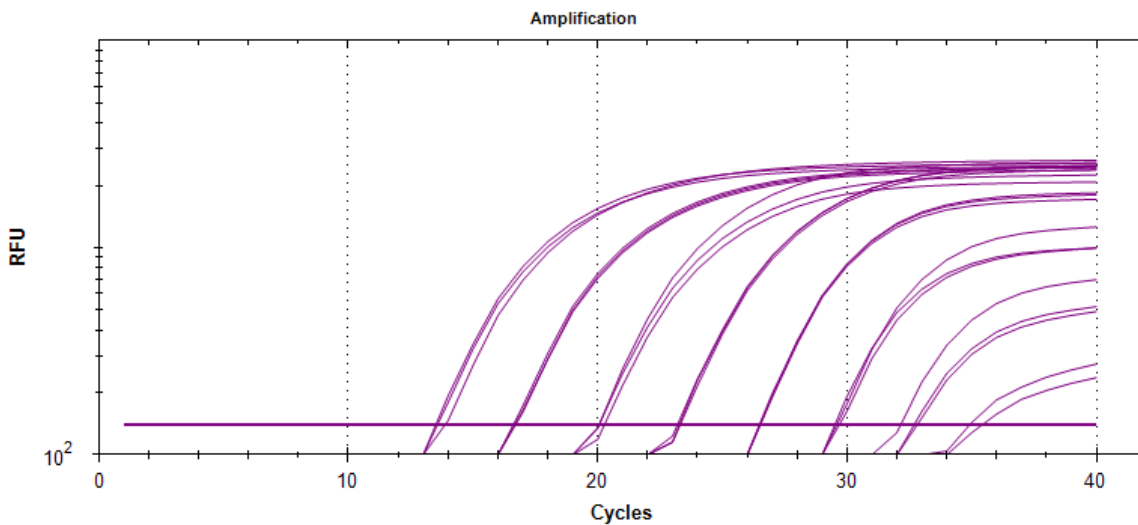


Figure 19: Logarithmic amplification curves for *mecA* (Mix 2)

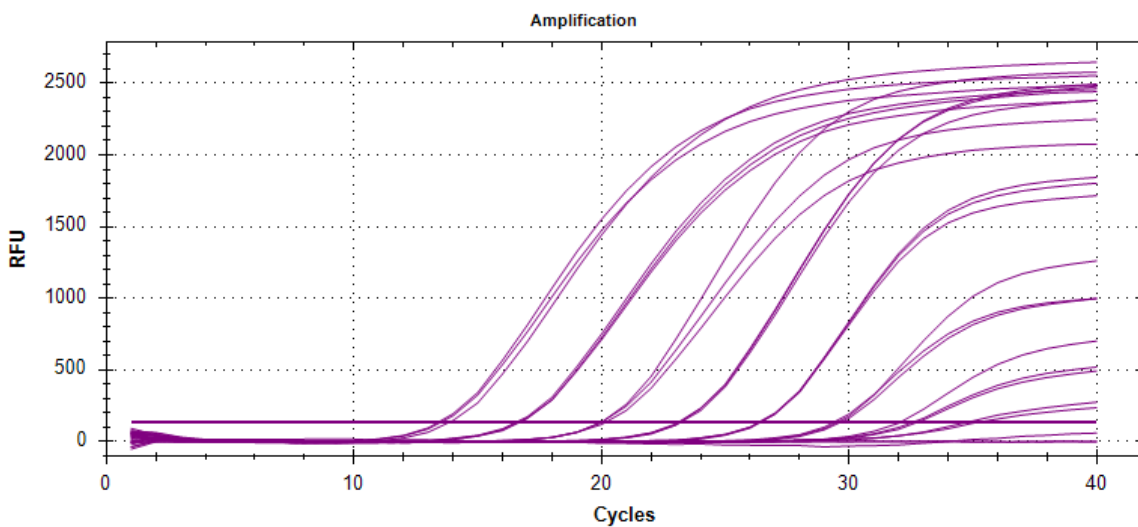


Figure 20: Standard amplification curves for *mecA* (Mix 2)

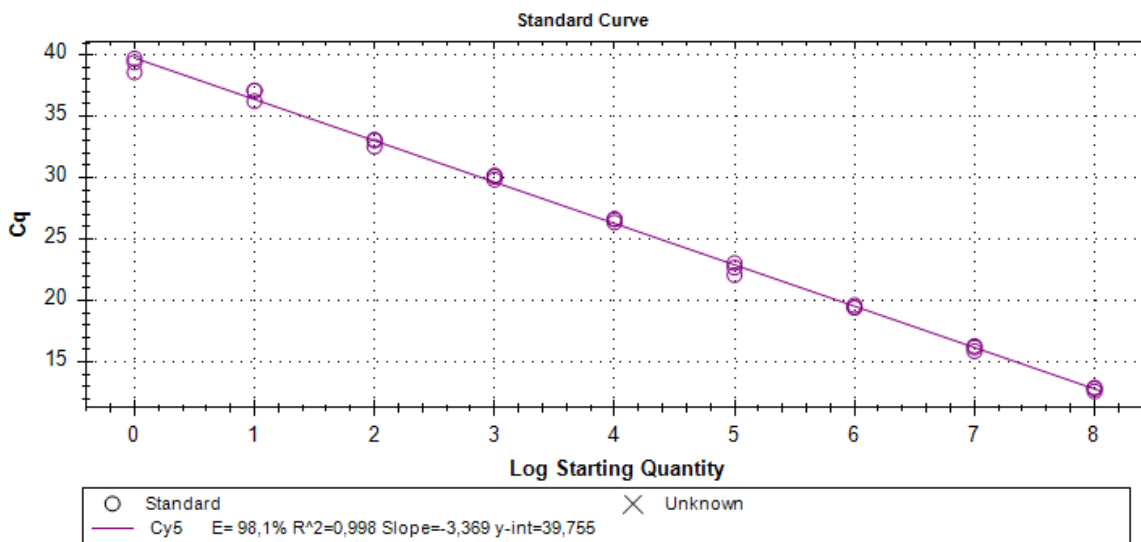


Figure 21: Standard curve for *mecA* (Mix 2)

Gene
<i>mecC</i> (Mix 2)

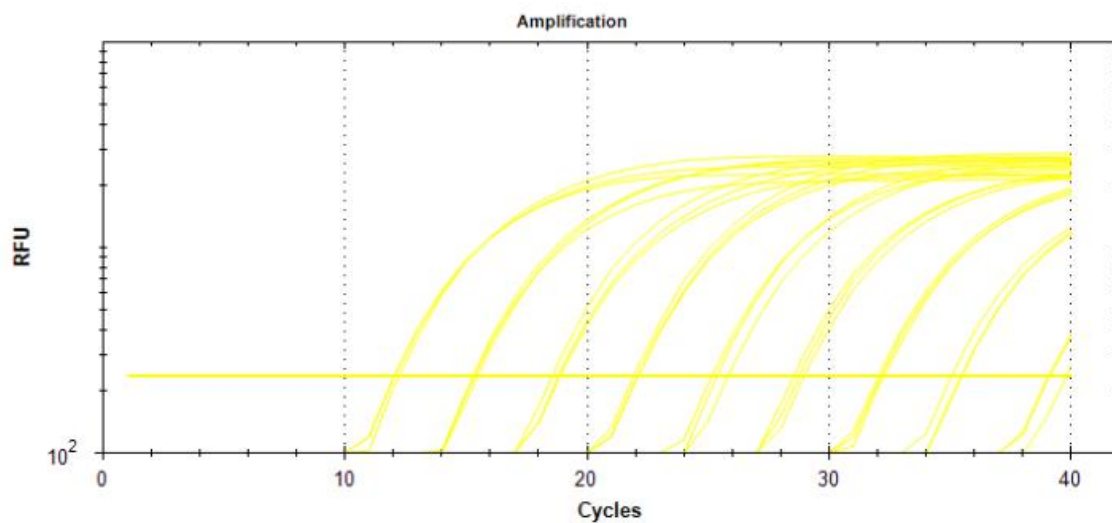


Figure 22: Logarithmic amplification curves for mecC (Mix 2)

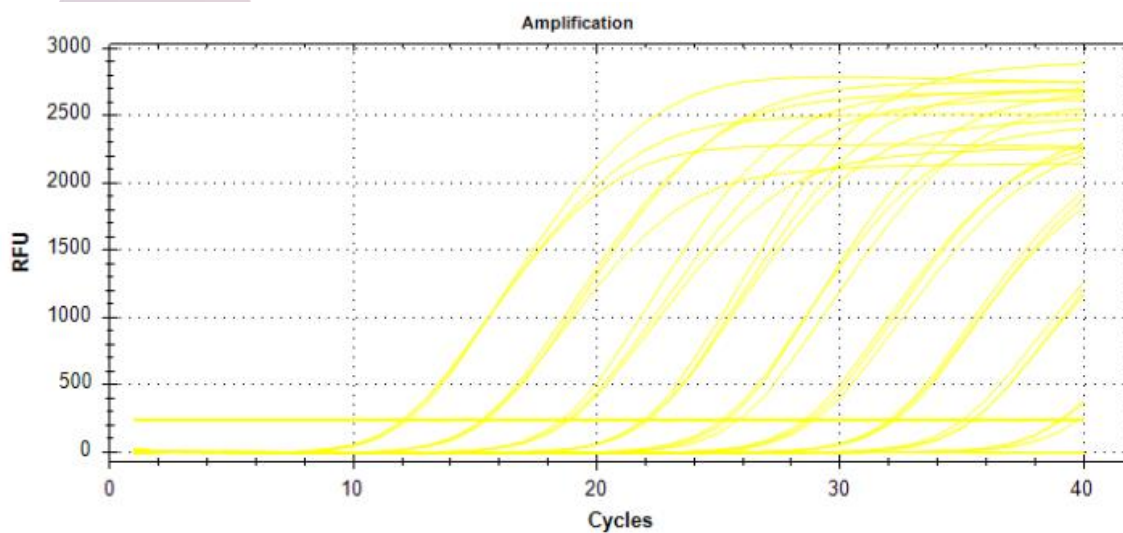


Figure 23: Standard amplification curves for mecC (Mix 2)

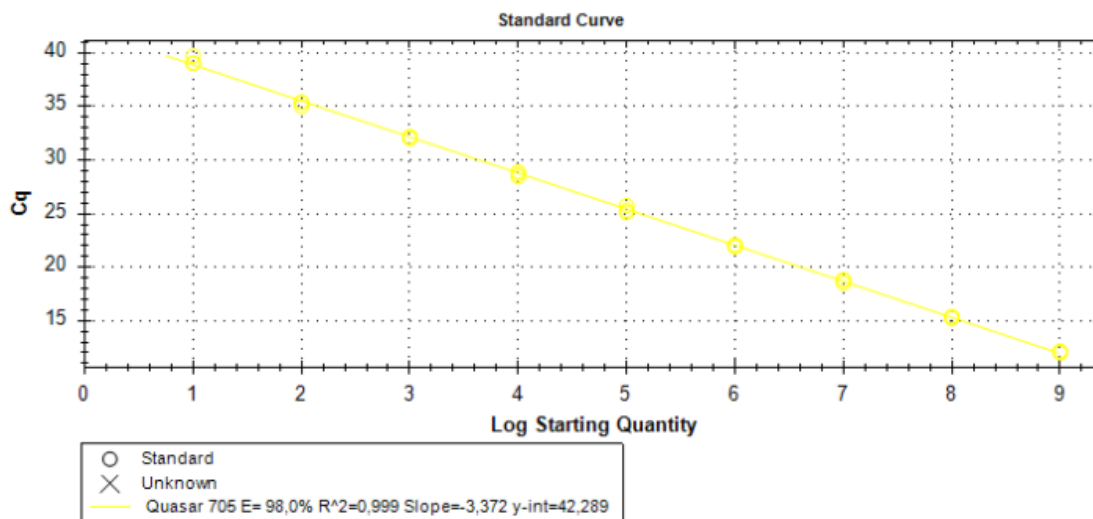


Figure 24: Standard curve for *mecC* (Mix 2)

Summary of Ct values

The following table details the Ct values obtained for each sample and fluorophore of each kit of the order.

Target Name	Sample Name	Reporter	Ct values
<i>blaIMP</i> (Mix 2)	1	FAM	12,64
	2	FAM	18,61
	3	FAM	20,46
	4	FAM	22,68
	5	FAM	26,23
	6	FAM	30,68
	7	FAM	31,56
	8	FAM	34,72
	Negative Control	FAM	Undetermined

<i>mcr-1 (Mix 2)</i>	1	ROX	13,87
	2	ROX	18,45
	3	ROX	20,19
	4	ROX	22,52
	5	ROX	25,66
	6	ROX	27,46
	7	ROX	31,13
	8	ROX	-
	Negative Control	ROX	Undetermined

Target Name	Sample Name	Reporter	Ct values
<i>mecA (Mix 2)</i>	1	CY5	12,16
	2	CY5	15,29
	3	CY5	21,53
	4	CY5	24,55
	5	CY5	26,93
	6	CY5	31,63
	7	CY5	34,28
	8	CY5	36,38
	Negative Control	CY5	Undetermined

<i>mecC (Mix 2)</i>	1	CY5.5	14,74
	2	CY5.5	18,45
	3	CY5.5	22,27
	4	CY5.5	24,41
	5	CY5.5	26,31
	6	CY5.5	28,14
	7	CY5.5	32,61
	8	CY5.5	33,75
	Negative Control	CY5.5	Undetermined