

PCR Kit Quality Control Certificate

Gene
<i>mcr-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

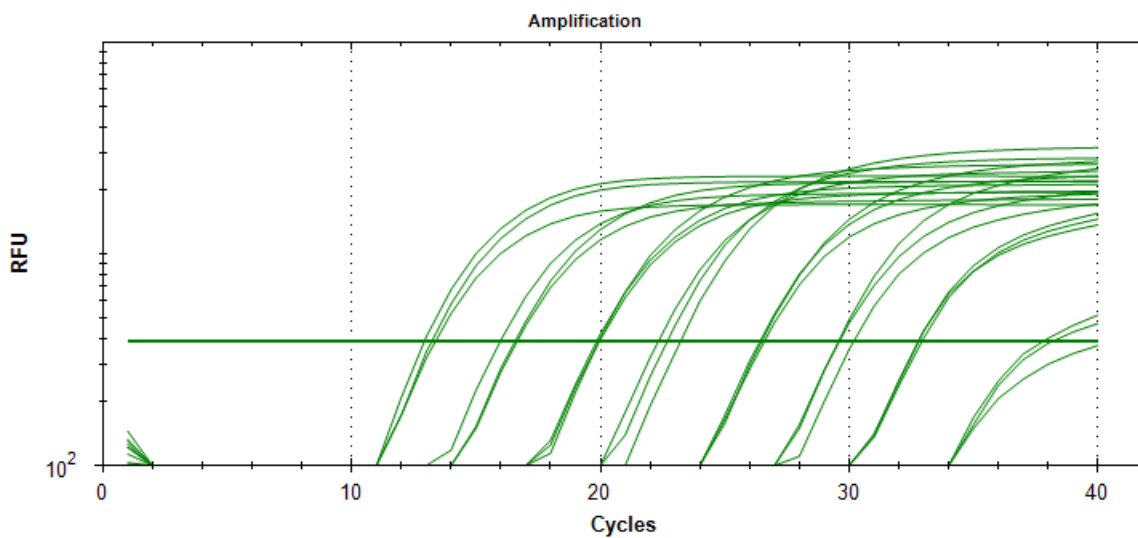


Figure 1: Logarithmic amplification curves for mcr-1

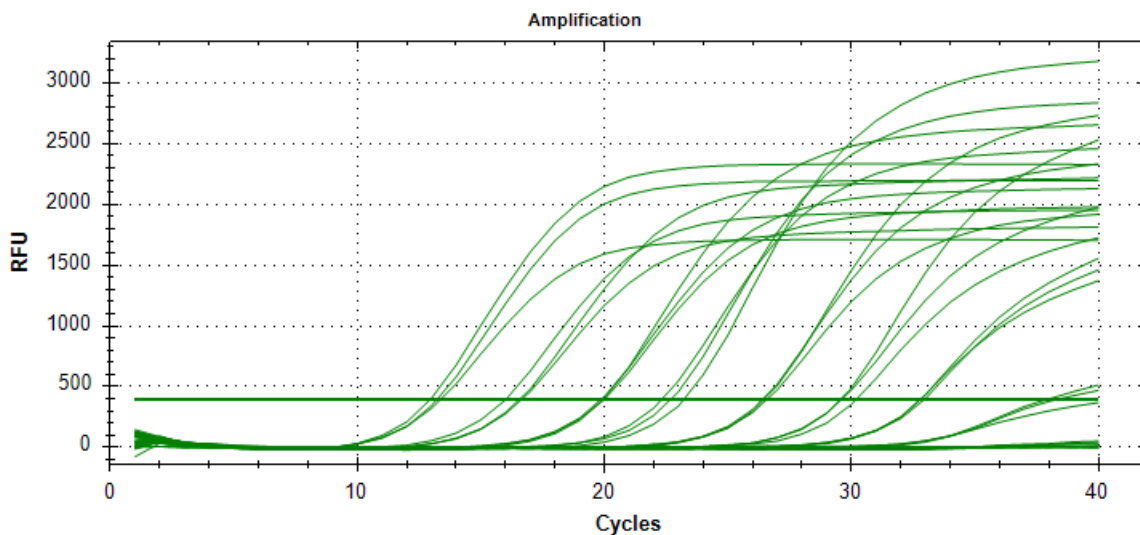


Figure 2: Standard amplification curves for mcr-1

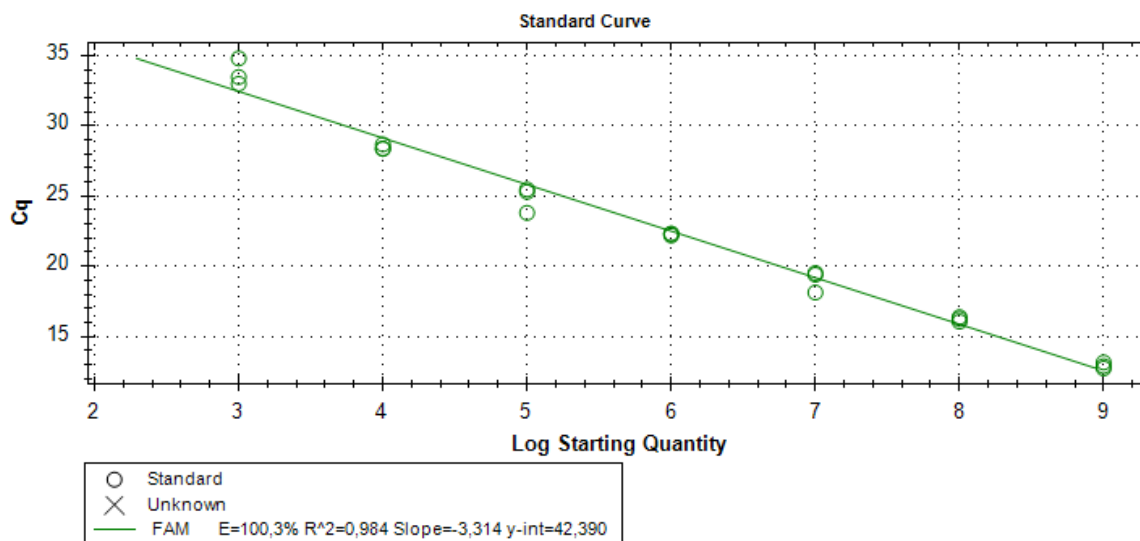


Figure 3: Standard curve for mcr-1

Gene
<i>mcr-3</i>

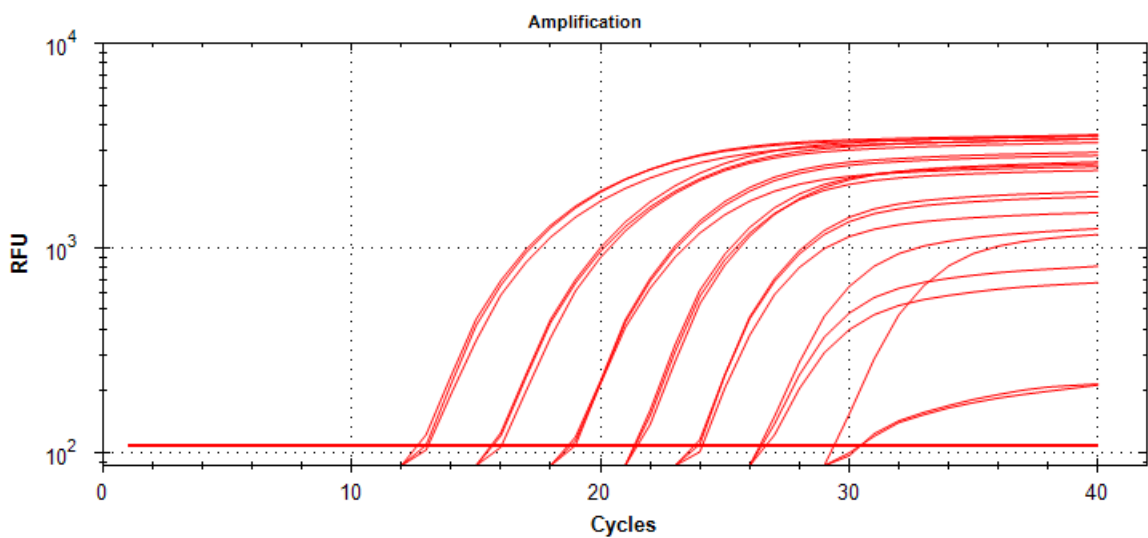


Figure 4: Logarithmic amplification curves for *mcr-3*

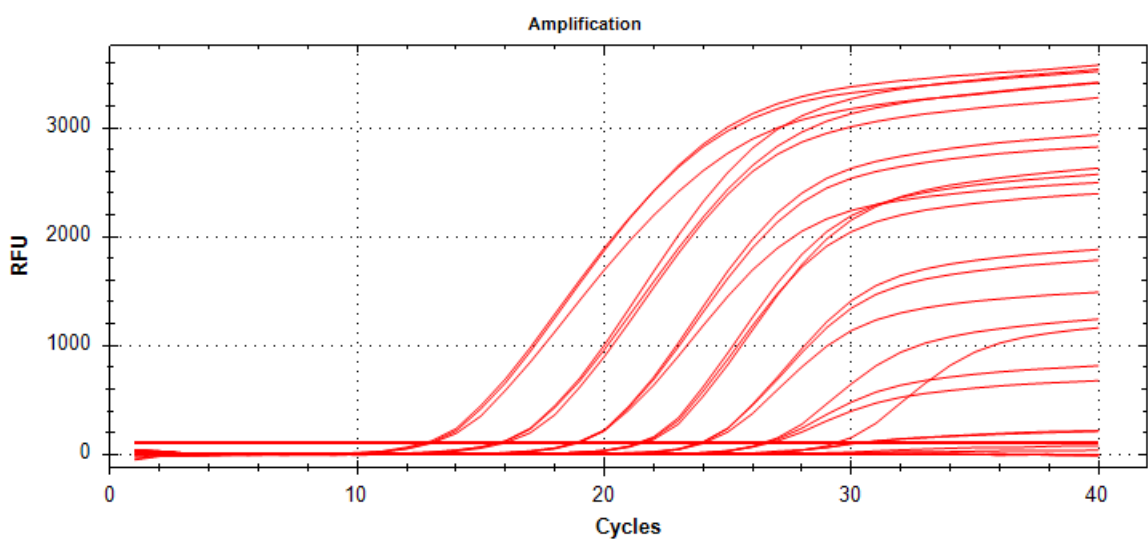


Figure 5: Standard amplification curves for *mcr-3*

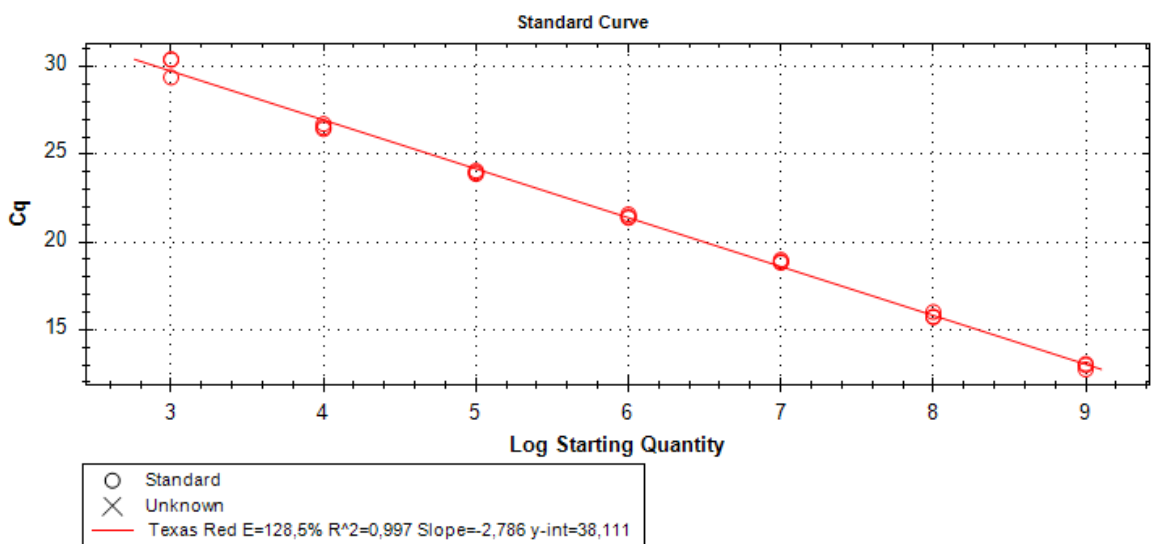


Figure 6: Standard curve for *mcr-3*

Gene
<i>mcr-5</i>

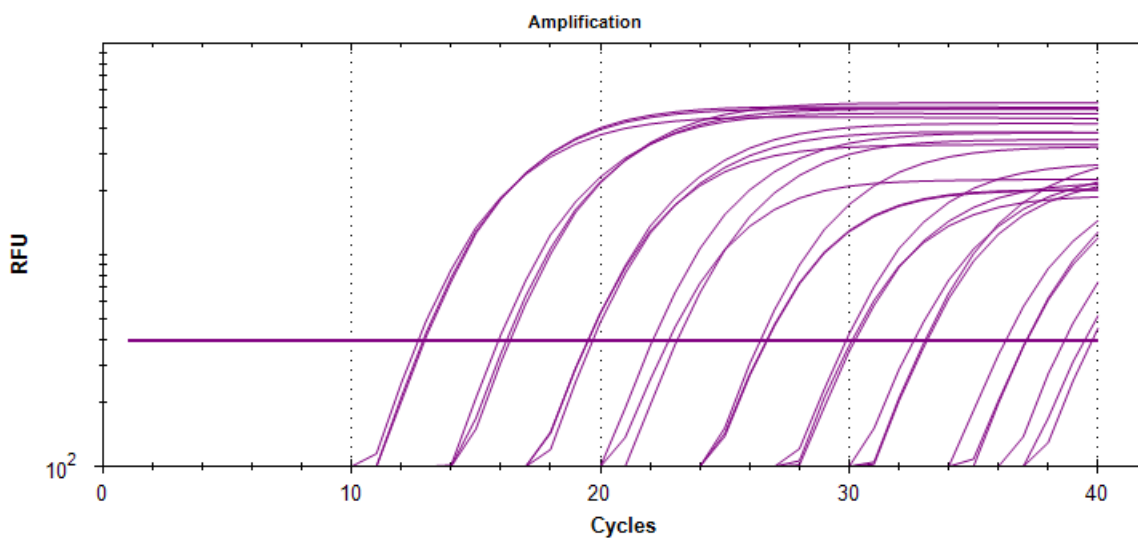


Figure 7: Logarithmic amplification curves for mcr-5

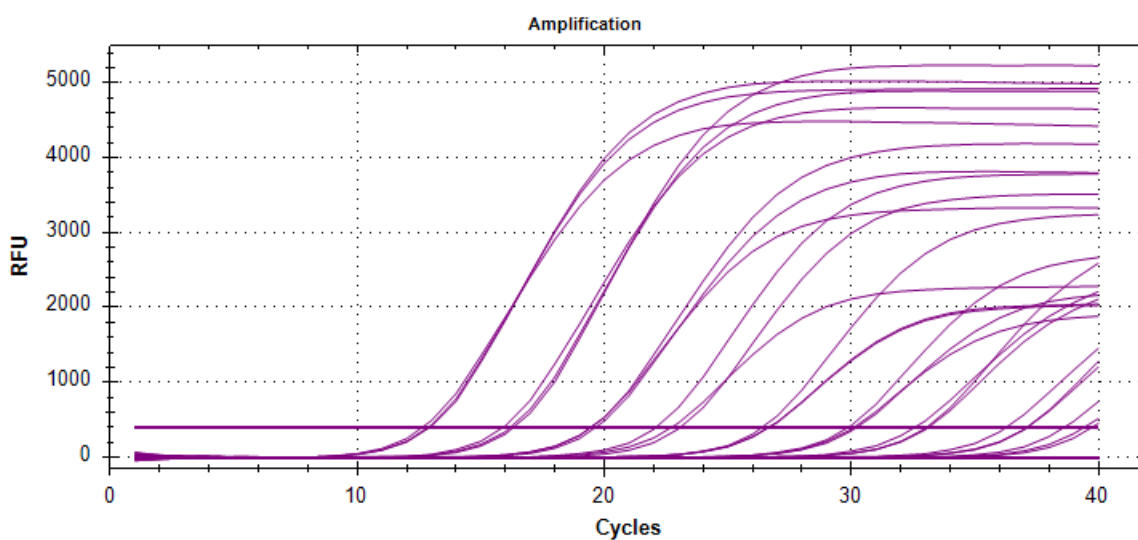


Figure 8: Standard amplification curves for mcr-5

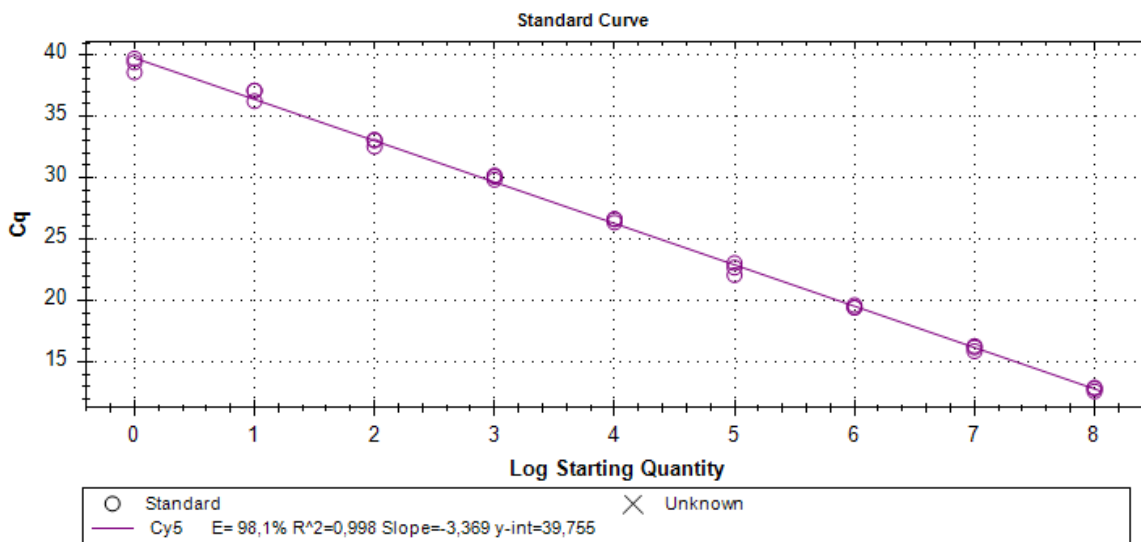


Figure 9: Standard curve for *mcr-5*

Gene
<i>mcr-9</i>

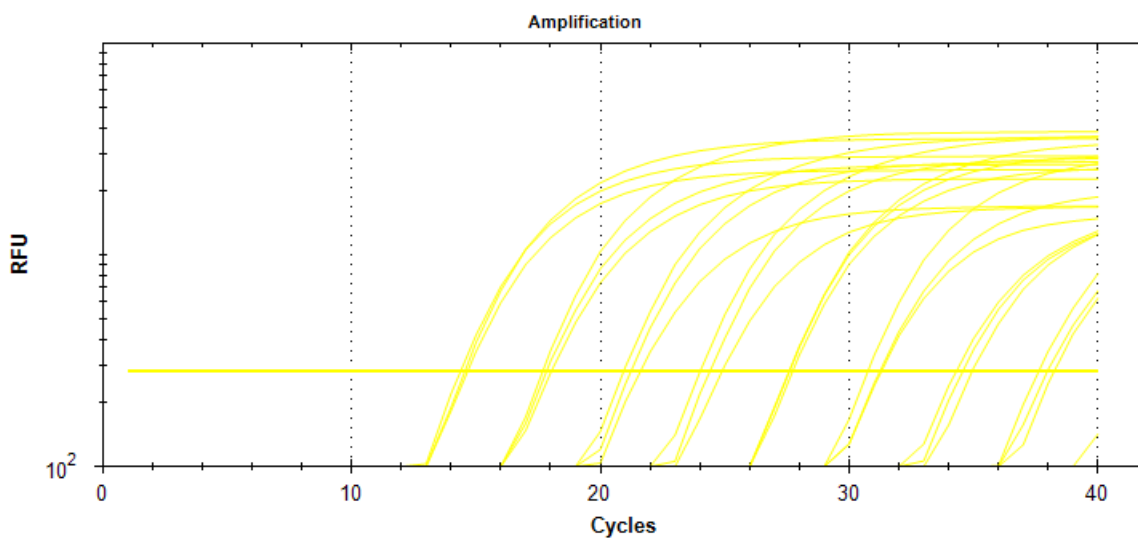


Figure 10: Logarithmic amplification curves for mcr-9

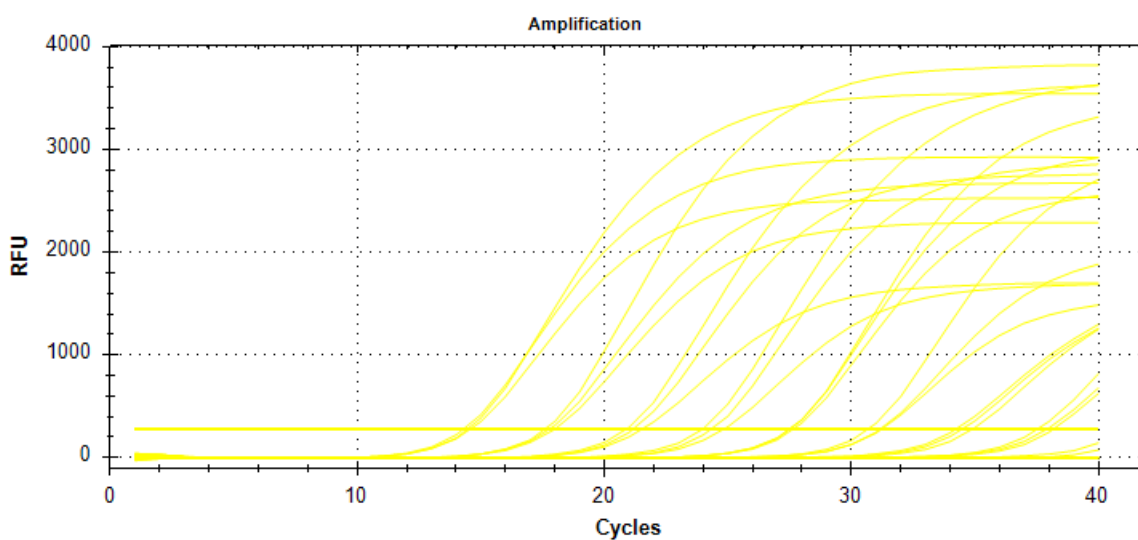


Figure 11: Standard amplification curves for mcr-9

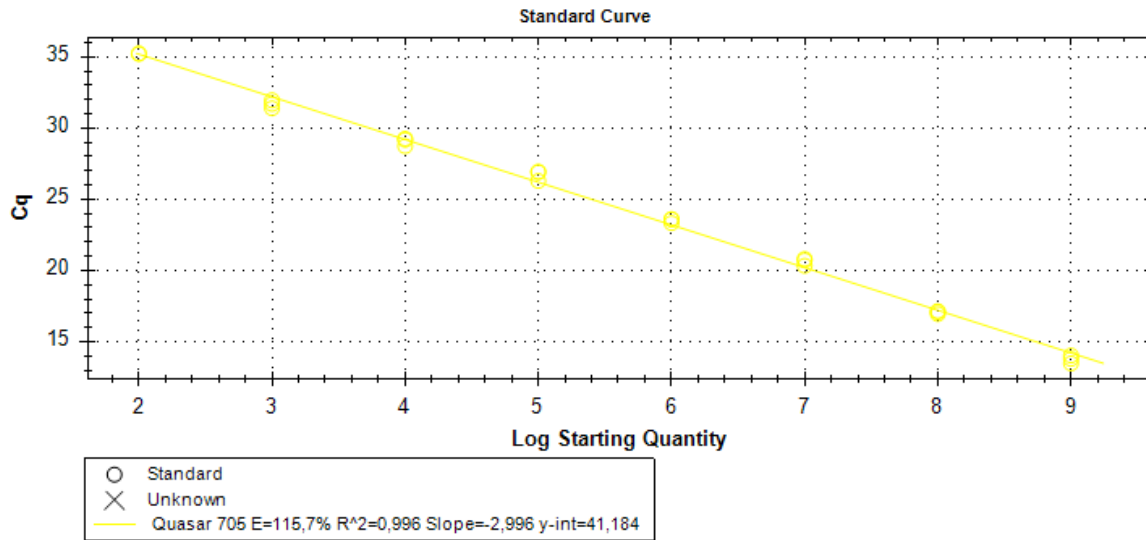


Figure 12: Standard curve for mcr-9

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>mcr-1</i>	1	FAM	12,74
	2	FAM	16,25
	3	FAM	21,57
	4	FAM	23,66
	5	FAM	26,43
	6	FAM	30,15
	7	FAM	32,26
	8	FAM	35,72
	Negative Control	FAM	Undetermined

<i>mcr-3</i>	1	ROX	13,67
	2	ROX	16,55
	3	ROX	20,79
	4	ROX	23,23
	5	ROX	25,86
	6	ROX	28,44
	7	ROX	33,83
	8	ROX	-
	Negative Control	ROX	Undetermined

Target Name	Sample Name	Reporter	Ct values
<i>mcr-5</i>	1	CY5	12,52
	2	CY5	16,92
	3	CY5	21,25
	4	CY5	24,75
	5	CY5	27,63
	6	CY5	32,26
	7	CY5	34,58
	8	CY5	36,28
	Negative Control	CY5	Undetermined

<i>mcr-9</i>	1	CY5.5	12,45
	2	CY5.5	14,32
	3	CY5.5	18,43
	4	CY5.5	22,49
	5	CY5.5	26,71
	6	CY5.5	30,59
	7	CY5.5	33,64
	8	CY5.5	35,24
	Negative Control	CY5.5	Undetermined