

PCR Kit Quality Control Certificate

Pathogen
<i>E. coli O157</i>

Table 1: Concentration in ng/ μ L 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

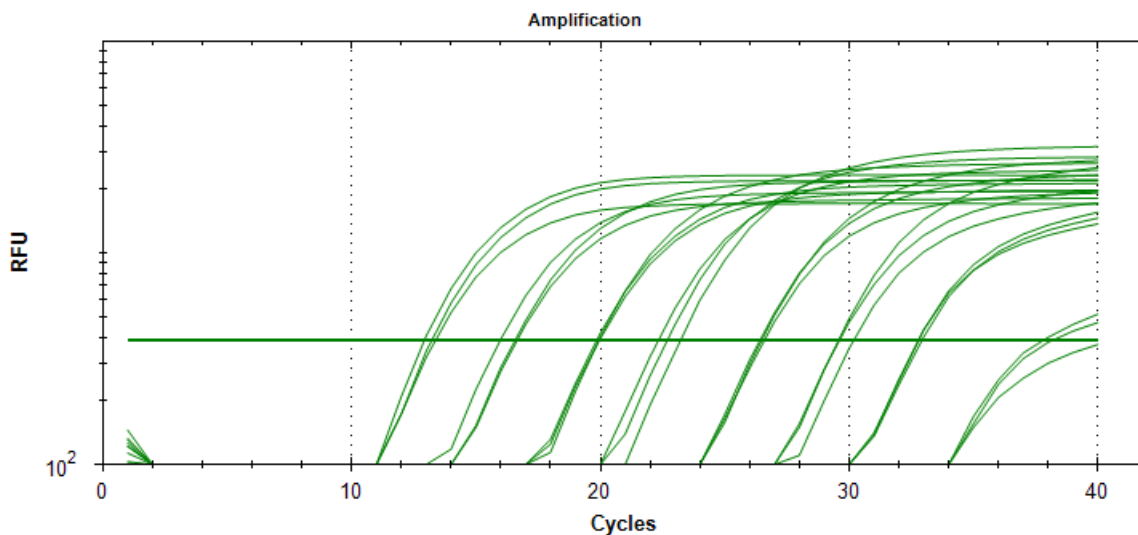


Figure 2: Logarithmic amplification curves for *E. coli O157*

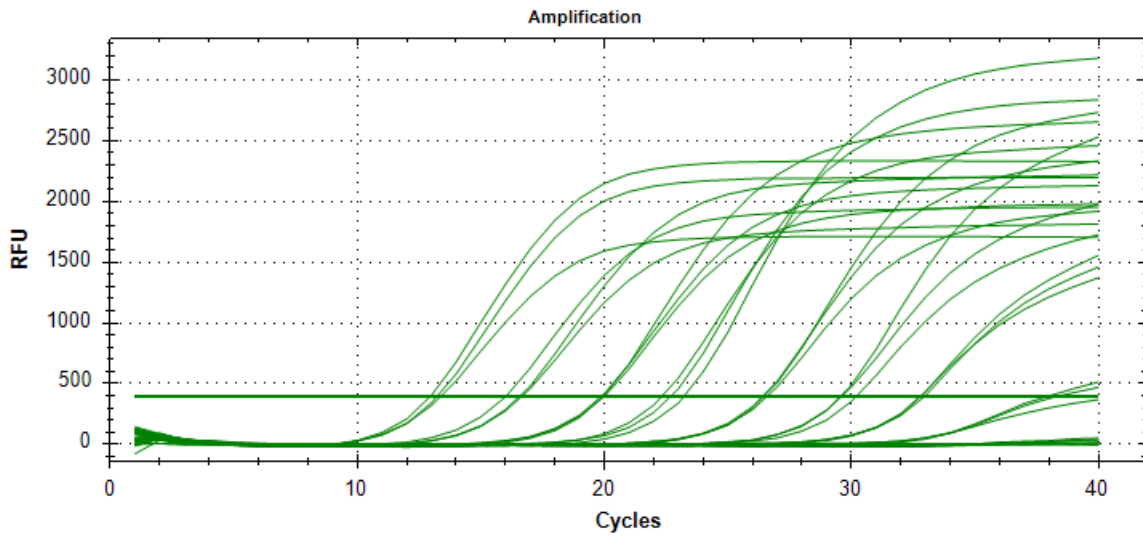


Figure 3: Standard amplification curves for *E. coli* O157

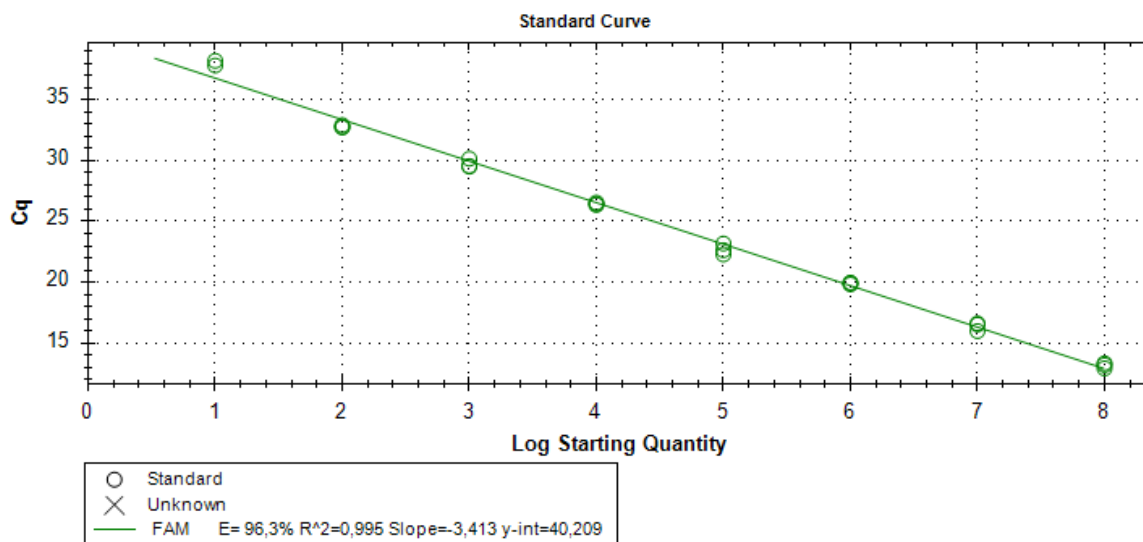


Figure 4: Standard curve for *E. coli* O157

Pathogen
<i>eae</i>

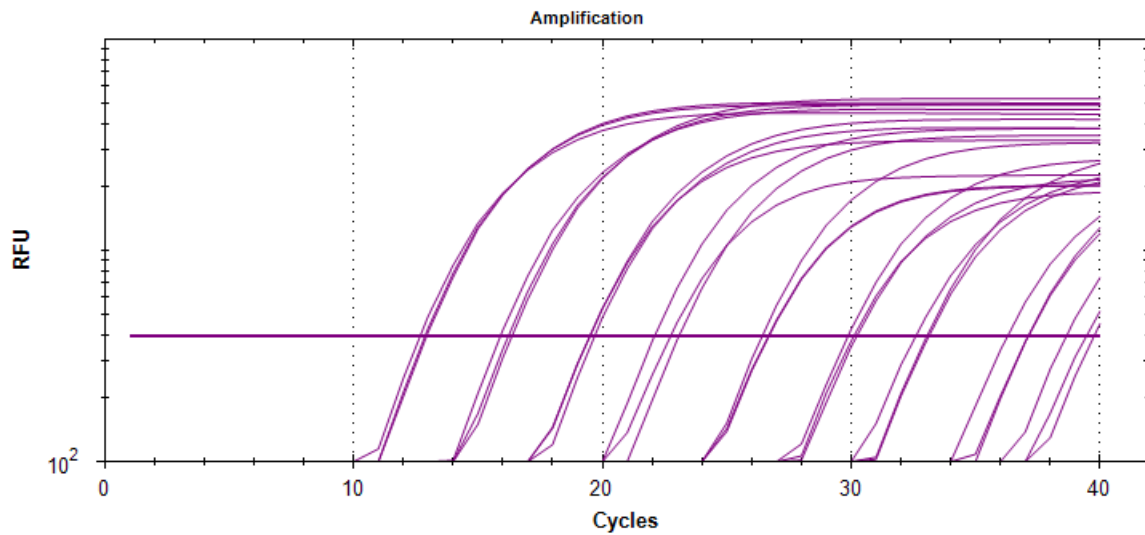


Figure 5: Logarithmic amplification curves for *eae*

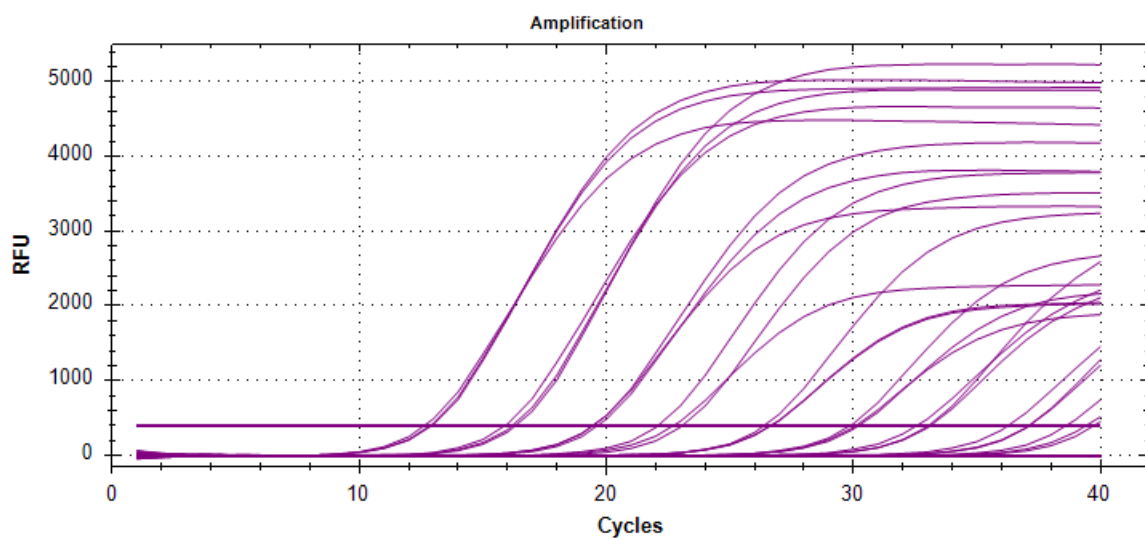


Figure 6: Standard amplification curves for eae

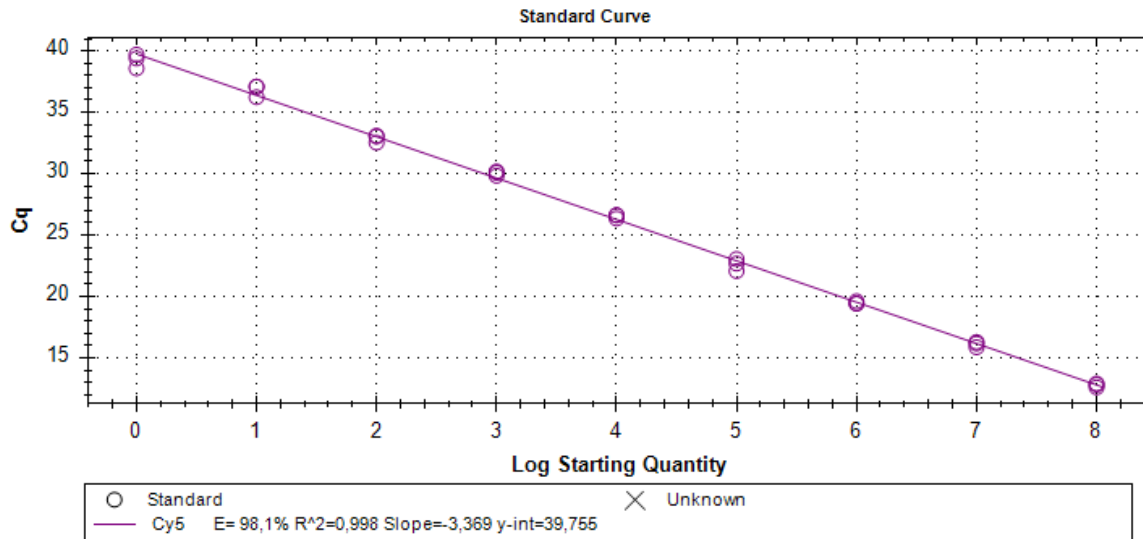


Figure 7: Standard amplification curves for eae

Pathogen
<i>stx2</i>

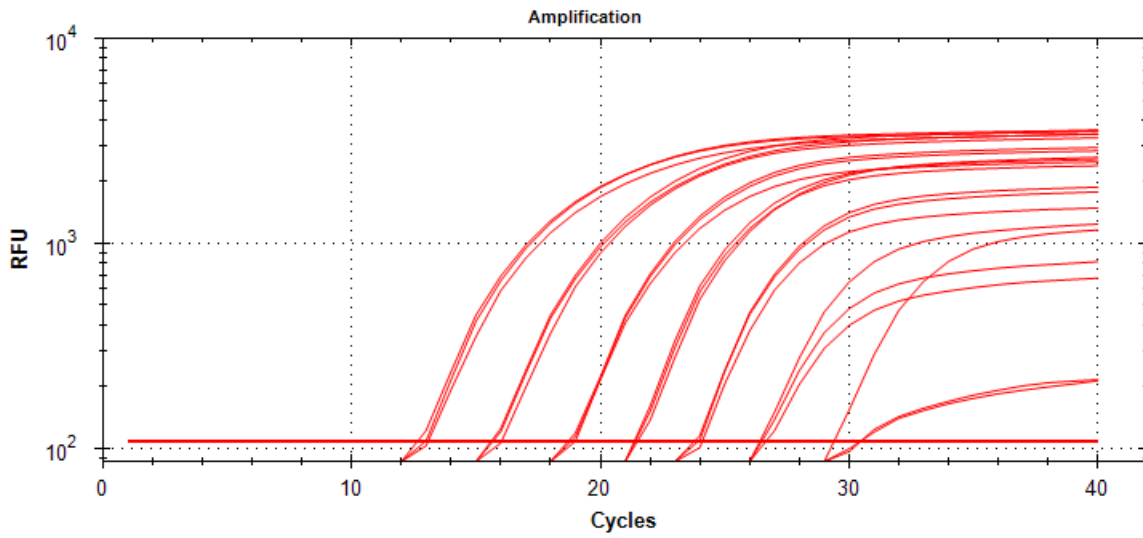


Figure 11: Logarithmic amplification curves for stx2

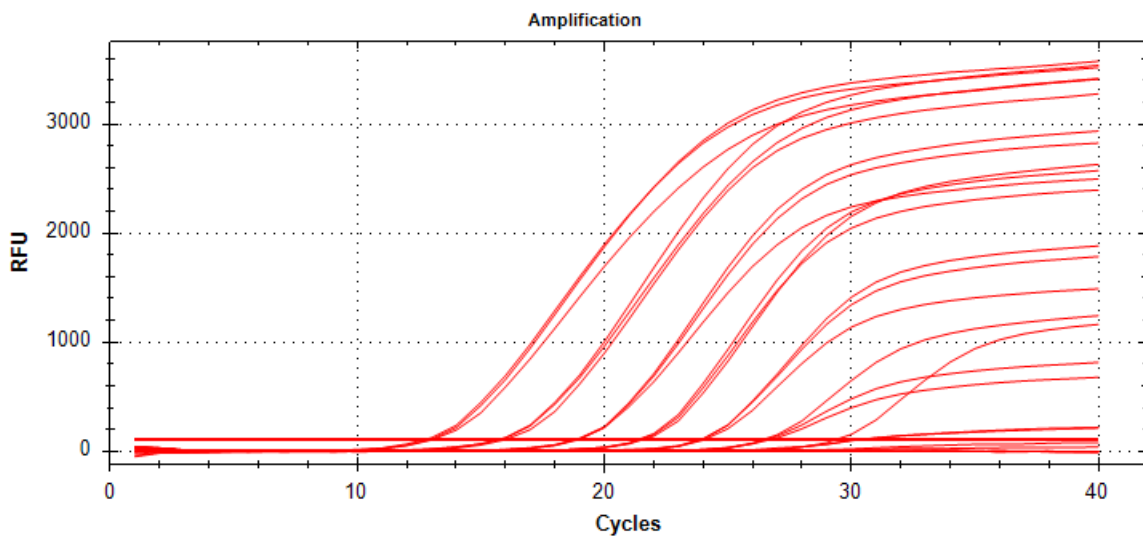


Figure 12: Standard amplification curves for stx2

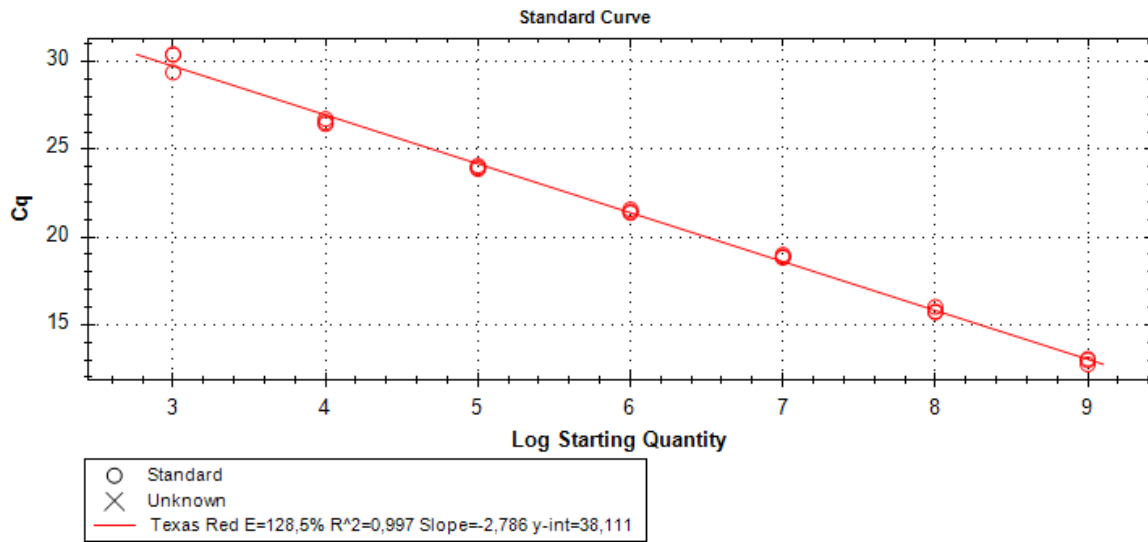


Figure 13: Standard curve for *stx2*

Pathogen
<i>stx1</i>

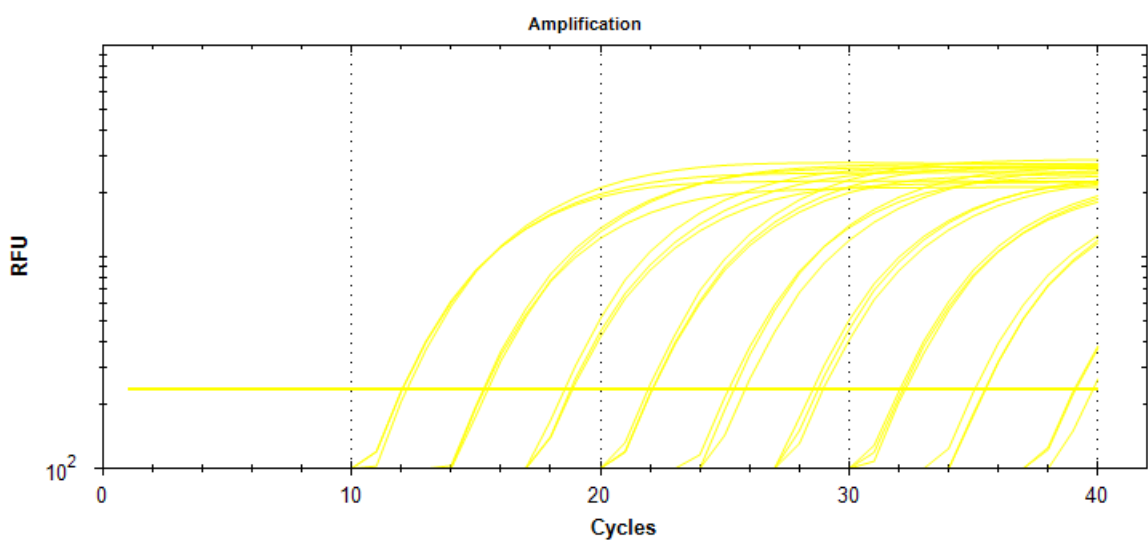


Figure 11: Logarithmic amplification curves for *stx1*

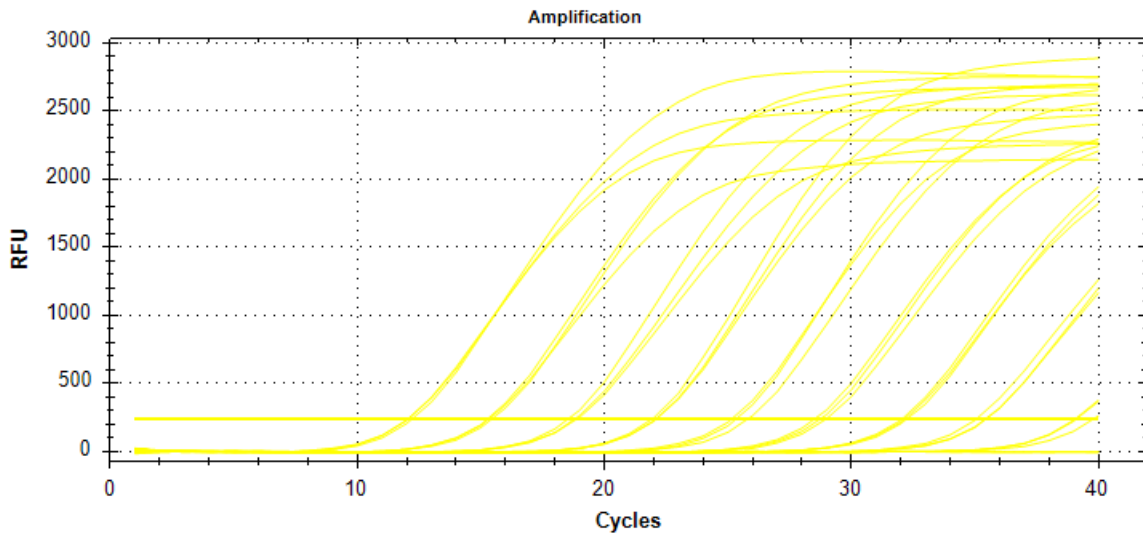


Figure 12: Standard amplification curves for *stx1*

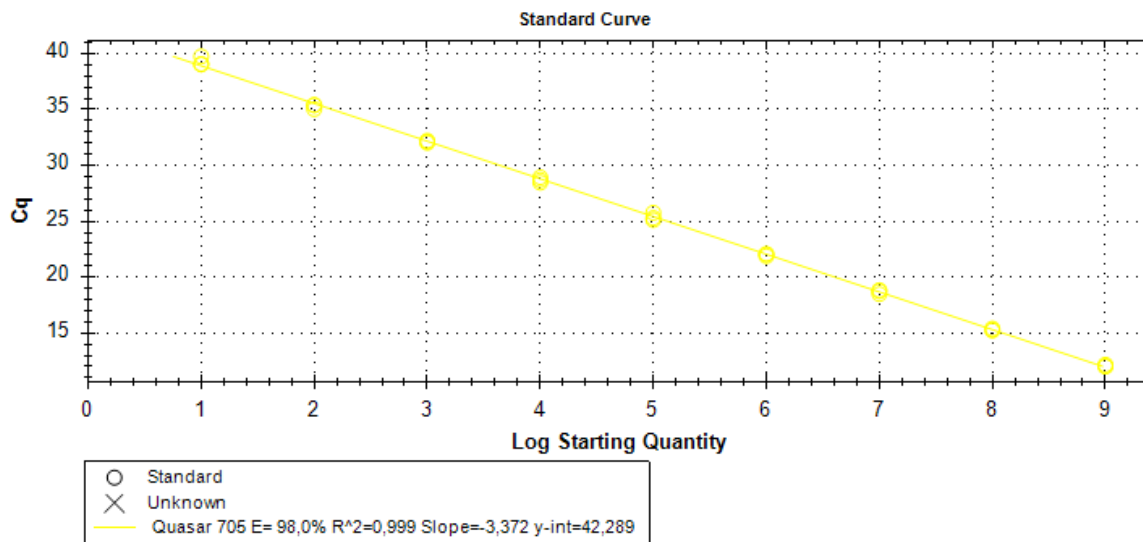


Figure 13: Standard curve for *stx1*

Summary of Ct values

The following table details the Ct values obtained for each sample and fluorophore of each kit of the order of the Mix 1.

Target Name	Sample Name	Reporter	Ct values
<i>E. coli O157</i>	1	FAM	13,34
	2	FAM	16,53
	3	FAM	19,83
	4	FAM	23,19
	5	FAM	26,44
	6	FAM	30,17
	7	FAM	32,75
	8	FAM	37,84
	Negative Control	FAM	Undetermined

<i>eae</i>	1	CY5	12,60
	2	CY5	16,30
	3	CY5	19,43
	4	CY5	22,69
	5	CY5	26,61
	6	CY5	30,19
	7	CY5	33,04
	8	CY5	36,24
	Negative Control	CY5	Undetermined

<i>stx2</i>	1	ROX	13,05
	2	ROX	16,02
	3	ROX	18,82
	4	ROX	21,58
	5	ROX	24,07
	6	ROX	26,74
	7	ROX	30,42
	8	ROX	-
	Negative Control	ROX	Undetermined

<i>stx1</i>	1	CY5.5	12,18
	2	CY5.5	15,41
	3	CY5.5	18,76
	4	CY5.5	22,06
	5	CY5.5	25,77
	6	CY5.5	28,93
	7	CY5.5	32,21
	8	CY5.5	35,39
	Negative Control	CY5.5	Undetermined

Certificate validated by:

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Quality Control Managers