Sylphium
molecular ecology

Lot quality report:

SYL139 – *Rutilis rutilis* qPCR detection kit

LOT# 241113

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1. Procedure

Experimental procedure was performed as described in the technical information document of SYL139 – *Rutilis rutilis* qPCR detection kit and of SYL1003 - eDNA qPCR master mix.

1.1 Components used in this lot quality analysis

Table 1: Specific components covered under this Lot validation:

Name	Ref number	LOT number
10 x Primer/probe mix	SYL139-1	241113-1
Positive control 10^4/2 µl	SYL139-2	201045

Table 2: Lot numbers of components eDNA qPCR master mix (SYL1003) tested for this Lot validation:

Name	Ref number	LOT number
eTaq DNA polymerase	SYL1003-1	240311
eTaq qPCR mix (2x)	SYL1003-2	230331
PCR grade water	SYL1003-3	220407

Table 3: Additional components, consumables and equipment used for this Lot validation:

Name	Manufacture	Ref number
CFX-96 ™ Real-Time System	Biorad	
PCR plate without skirt	Sarstedt	721.978.202
SafeSeal micro tube 2 ml	Sarstedt	72.695.500
Biosphere filter tips	Sarstedt	70.760.213
Biosphere filter tips	Sarstedt	70.760.211
Biosphere filter tips	Sarstedt	703.050.255
Sealing tape	Sarstedt	951.994

1.2 Used controls

Name	Replicas
PCR negative controls	88 x
1000 molecules positive controls	2 x
100 molecules positive controls	2 x
10 molecules positive controls	2 x
1 molecule positive controls	2 x

2. Results Lot validation

No contaminations were found using components mentioned in section 1.1.
All positive controls gave expected signals. (See fig. 1 and table 4)

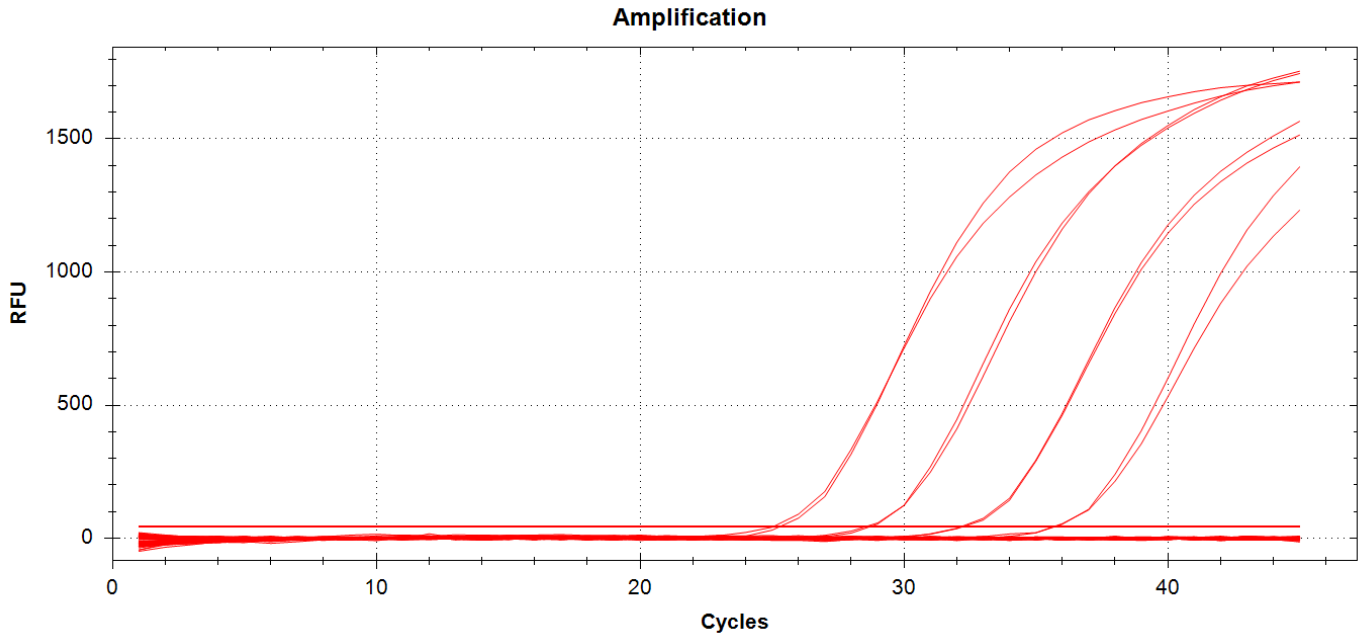

Fig. 2 Amplification plot of SYL139 – *Rutilis rutilis* qPCR detection kit with 1, 10, 100 and 1000 target DNA molecules per reaction performed in duplo.

Name	Positive signal	Negative signal
PCR negative controls	0	88
1000 molecules positive controls	2	0
100 molecules positive controls	2	0
10 molecules positive controls	2	0
1 molecule positive controls	2	0

3. Conclusion

All components as described in section 1.1 have past lot quality control to be used in SYL139 – *Rutilis rutilis* qPCR detection kit.

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