

# ControlReal 2

Order No.: RTGMCR-2

Unit: 50 reactions



For research only, not for diagnostic use

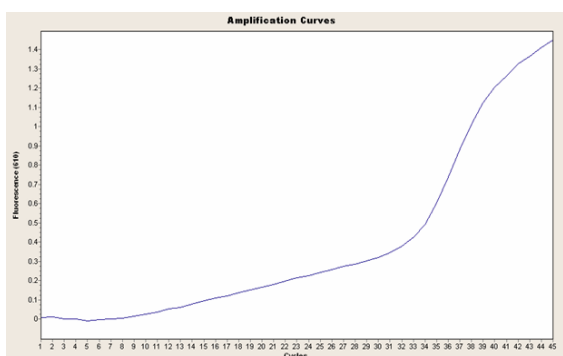
**Description:** ControlReal 2 is an internal positive control assay for exclusion of false-negative interpretation of real-time PCR results caused by inhibition of amplification. It is based on the amplification and detection (NED channel, 610 nm) of an internal positive DNA control target using real-time PCR. This assay can be performed in a multiplex-PCR with ingenetix BactoReal®, ViroReal® and ParoReal assays detecting bacterial, viral and parasitic DNA, see information on the respective products. ControlReal 2 can also be combined with user-specific assays not using TAMRA as quencher.

**PCR-platforms:** ControlReal 2 is developed for the LightCycler® 1.2/1.5 or 2.0 instruments (Roche) (detection in channel F2 or 610 nm) but can also be used with other real-time PCR instruments allowing detection in NED channel.

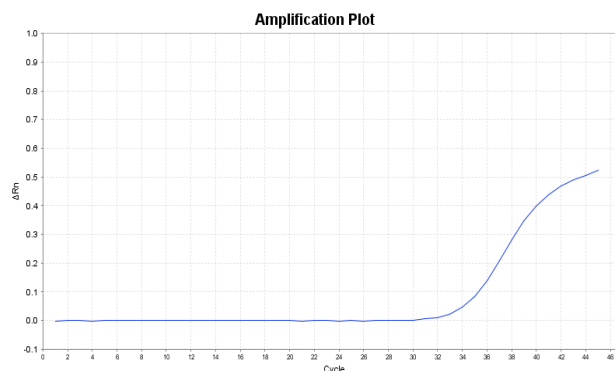
**Content:** ControlReal 2 contains primers, a probe and an internal control DNA target (included in the primer-probe mix) for testing up to 50 samples. The amplification mix is not included. Store components at -20°C and protect from light.

**Use:** Please refer to the corresponding BactoReal®, ViroReal® and ParoReal manuals for further instructions.

- Real-time PCR: Add 1 µl of Assay Mix to 20 µl PCR reaction.
- Temperature Profile: Annealing temperature: 60°C.



LightCycler® 1.2/1.5 or 2.0: channel F2 or 610 nm  
Detection of internal positive control target



ABI Prism® 7500: NED channel, 576 nm  
Detection of internal positive control target  
Caution: TAMRA must not be chosen as quencher for all assays in the reaction

## Overview of ingenetix real-time PCR control assays:

Information which control assay is suitable for your application can be found at the corresponding ingenetix BactoReal®, ViroReal® and ParoReal products.

Ingenetix real-time PCR control assays can also be combined with user-specific assays.

### 1. For monitoring of PCR inhibition:

ControlReal assays are based on the amplification and detection of an internal positive DNA control target included in the primer-probe mix.

Assay	Suitable for				Channel
	ABI PRISM® 7500	LightCycler® 1.2/1.5/2.0	LightCycler® 480	Mx3005P®	
ControlReal 1	✓			✓	VIC/HEX
ControlReal 2	(✓)	✓			NED (F2, 610 nm)
ControlReal 3	✓		✓	✓	Cy5

(✓) Not for use in combination with assays using TAMRA as quencher

### 2. For control of DNA extraction and monitoring of PCR inhibition:

Internal Positive Control Assays are based on the amplification and detection of an internal positive DNA control target added during extraction or to the mastermix. DNA target is provided in a separate vial.

Assay	Suitable for				Channel
	ABI PRISM® 7500	LightCycler® 1.2/1.5/2.0	LightCycler® 480	Mx3005P®	
Internal Positive Control Assay 1	✓			✓	VIC/HEX
Internal Positive Control Assay 2	(✓)	✓			NED (F2, 610 nm)
Internal Positive Control Assay 3	✓		✓	✓	Cy5

(✓) Not for use in combination with assays using TAMRA as quencher

### 3. For control of RNA extraction and monitoring of RT PCR inhibition:

Internal Positive RNA Control Assays are based on the amplification and detection of an internal positive RNA control target added during extraction or to the mastermix. RNA target is provided in a separate vial.

Assay	Suitable for				Channel
	ABI PRISM® 7500	LightCycler® 1.2/1.5/2.0	LightCycler® 480	Mx3005P®	
Internal Positive RNA Control Assay 1	✓			✓	VIC/HEX
Internal Positive RNA Control Assay 2	(✓)	✓			NED (F2, 610 nm)
Internal Positive RNA Control Assay 3	✓		✓	✓	Cy5

(✓) Not for use in combination with assays using TAMRA as quencher

For further information on our products please visit our homepage ([www.ingenetix.com](http://www.ingenetix.com))