

Molecular

TaqMan Environmental Master Mix 2.0

Accurate, real-time PCR-based pathogen detection in the presence of high levels of inhibitors

Master Mix for PCR analysis of environmental, food and other challenging samples

Unlike other Master Mixes, which can perform poorly with low levels of target DNA or in the presence of common PCR inhibitors, the Applied Biosystems™ TaqMan™ Environmental Master Mix 2.0 guarantees excellent amplifications and robust results even at low DNA concentrations and in the presence of inhibitors.

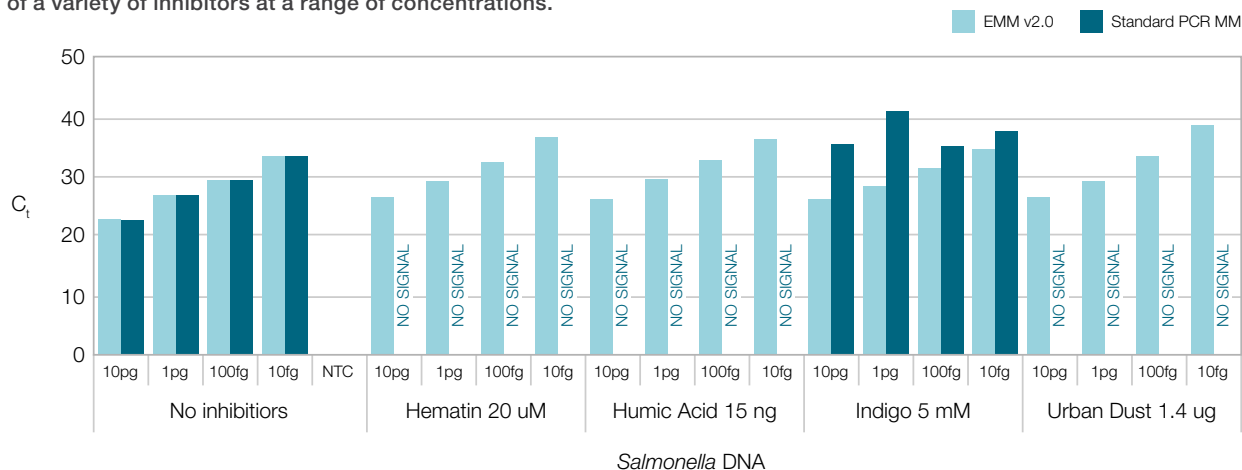
Why choose TaqMan Environmental Master Mix 2.0?

- **Optimized to perform** in a reliable and reproducible way even under conditions that normally interfere with the qPCR reaction.
- **Efficiency and reproducibility in the presence of high concentrations of inhibitors:** TaqMan Environmental Master Mix 2.0 detects target DNA, even at low concentrations, in both the presence and absence of inhibitors, such as food samples containing spices, cocoa, and environmental samples containing dust, etc.
- **Excellent amplification with low copies of genomic DNA.** When the DNA to be detected is in very low concentrations results are often not robust or reproducible. The TaqMan Environmental Master Mix 2.0 shows excellent amplification of target DNA that is maintained throughout serial dilutions with and without inhibitors.
- **Particularly suitable for multiplex PCR analysis.** The TaqMan Environmental Master Mix 2.0 allows the detection of multiple DNA targets in the same reaction thanks to its high specificity which reduces non-specific cross reactions.



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Figure 2. Comparison of the C_t values achieved with a Salmonella species detection assay using a standard PCR master mix versus TaqMan Environmental Master Mix 2.0 in the presence of a variety of inhibitors at a range of concentrations.



What enzyme is used?

The TaqMan Environmental Master Mix 2.0 uses AmpliTaq Gold™ DNA Polymerase, UP (Ultra Pure), further purified to minimize possible false-positives due to the bacterial nature of the enzyme.

As a hot-start enzyme, it is inactive at room-temperature, allowing the operator to work on the bench at room temperature until ready to run PCR.

What's in the master mix?

The TaqMan Environmental Master Mix 2.0 is provided at a 2x concentration and contains:

- AmpliTaq Gold DNA Polymerase, UP (Ultra Pure) hot-start
- dNTP with dUTP to minimize possible environmental contamination
- Passive ROX™ dye reference
- Optimized buffer components

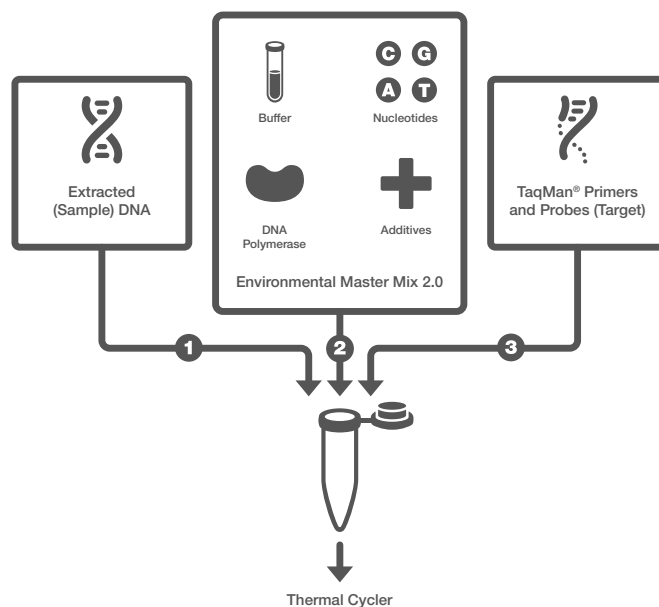
Ordering information

Product	Format	Order code
Applied Biosystems TaqMan Environmental Master Mix 2.0	200 reactions	4396838
	400 reactions	4398021
	800 reactions	4398044

Which sample types?

The TaqMan Environmental Master Mix 2.0 ensures reliable, reproducible results even in the conditions that normally compromise the success of a qPCR (inhibitors, low DNA concentration) making it suitable for:

- Food samples including those containing inhibitors such as polyphenols, e.g. cocoa
- Environmental samples such as dirty water
- Other types of samples with and without inhibitors, at low or high target DNA concentrations



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