



Quantitative Mycoplasma Genomic DNA

Version:2.0

Latest update: 2024.02.01

Instruction Manual

Cat. No. QAGD, QLGD, QFGD, QHGD, QOGD, QPGD

Research Use Only. Not for Use in Diagnostic Procedures.

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1. Product Information

Introduction

The Quantitative Mycoplasma Genomic DNAs contain pure, quantified genomic DNA from selected mycoplasma species. It serves as a standard for testing the Limit of Detection (LOD) of Mycoplasma detection kits specific to each strain through serial dilution. These diluted solutions are useful for assessing kit sensitivity in detecting Mycoplasma DNA and can also serve as controls for tests requiring Mycoplasma DNA detection.

Supplied at a final concentration of 1×10^5 copies/ μl , determined through fluorescence analysis and digital PCR. To evaluate the performance of quantified DNA, utilize Real-Time PCR with the MycoQSearch™ Mycoplasma qPCR Detection Kit.

2. Contents and Storage

Materials Provided

Label	Cat. No.	Amount
<i>A. laidlawii</i> Genomic DNA (100,000copies/ μl)	QLGD	100 μl
<i>M. arginini</i> Genomic DNA (100,000copies/ μl)	QAGD	100 μl
<i>M. fermentans</i> Genomic DNA (100,000copies/ μl)	QFGD	100 μl
<i>M. hyorhinae</i> Genomic DNA (100,000copies/ μl)	QHGD	100 μl
<i>M. orale</i> Genomic DNA (100,000copies/ μl)	QOGD	100 μl
<i>M. pneumoniae</i> Genomic DNA (100,000copies/ μl)	QPGD	100 μl

Storage

Store at -20°C .

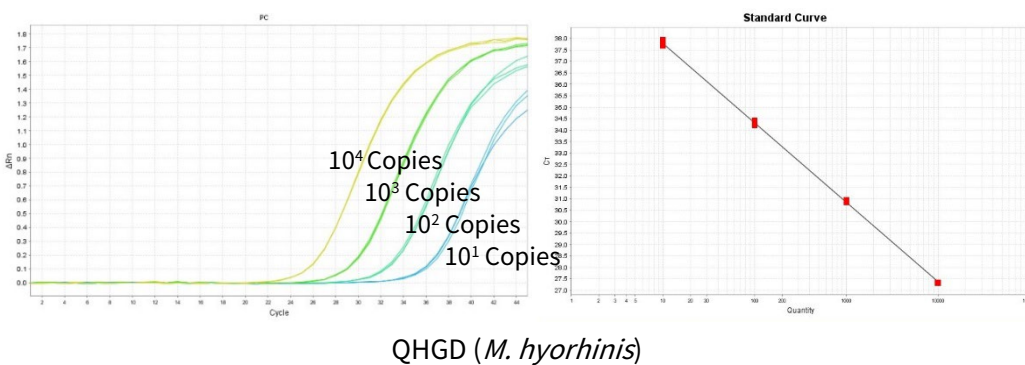
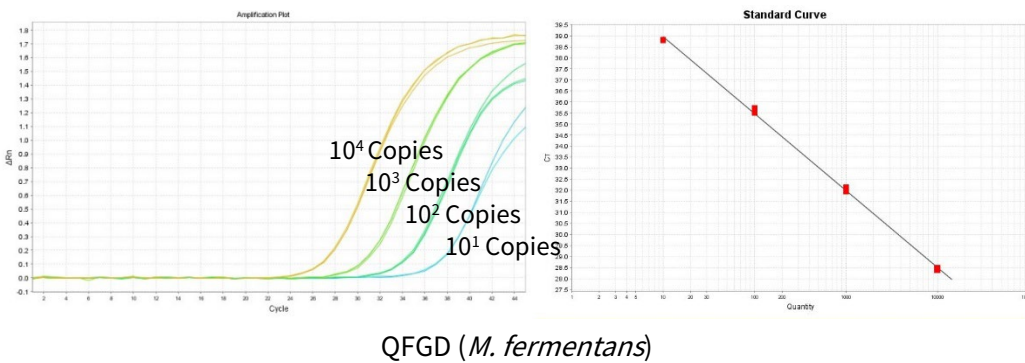
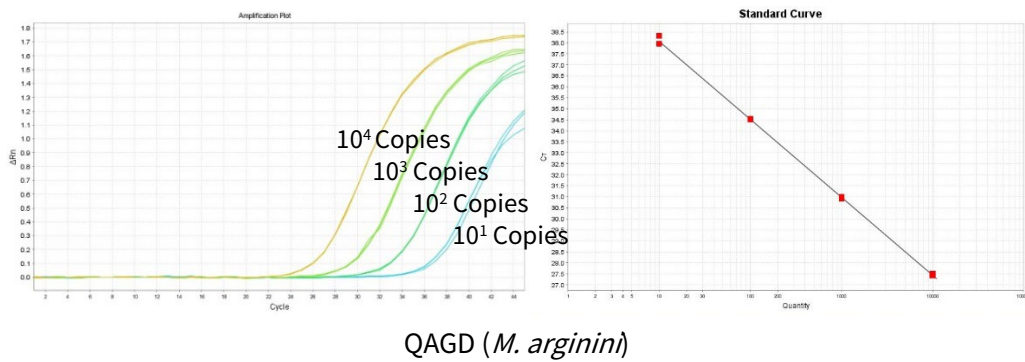
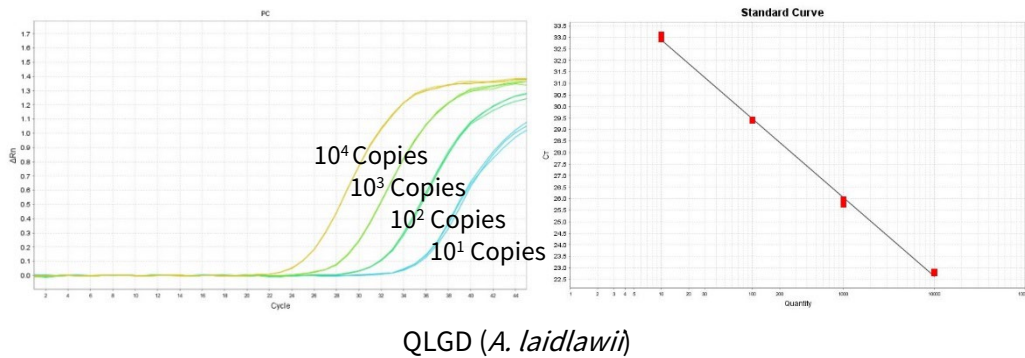
[Note]

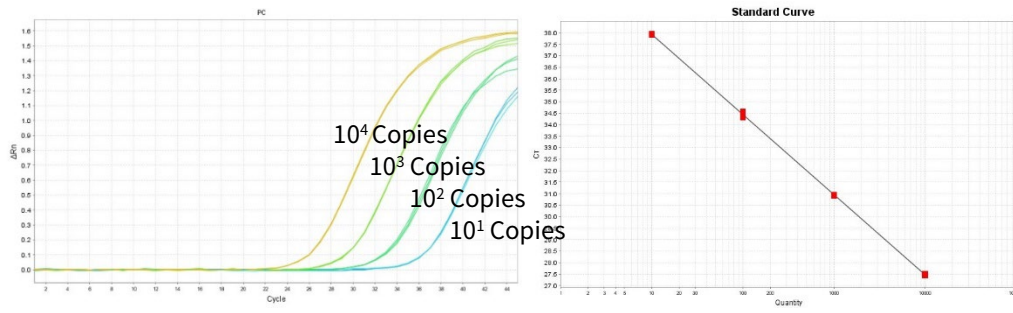
- 1) Repeat thawing reduces quality of product.
- 2) If frequent freeze and thaw is needed, aliquot the products and use in order.
- 3) Check the label on the product for details

3. Results

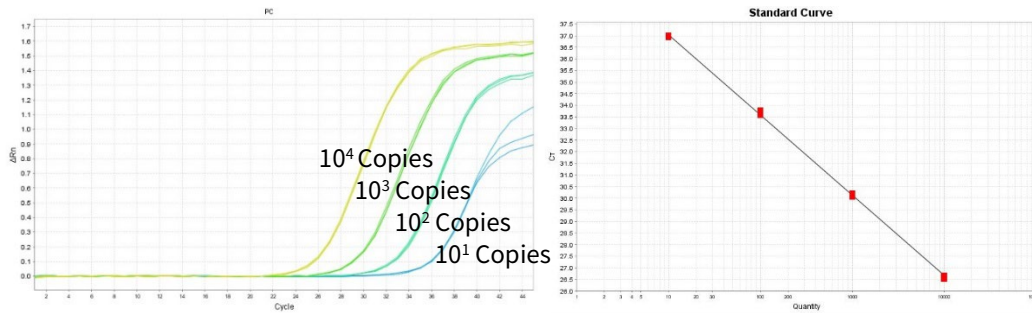
Amplification Result

Tested with MycoQSearch™ Plus Mycoplasma qPCR Detection Kit (Cat. No. QDPEP-100, CellSafe)





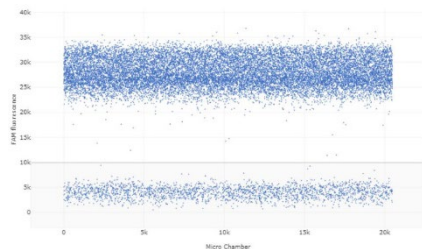
QOGD (*M. orale*)



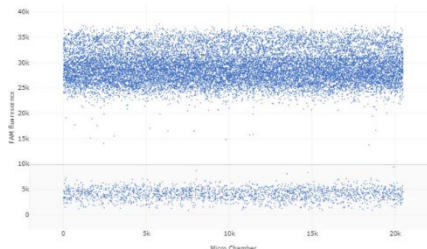
QPGD (*M. pneumoniae*)

Absolute Quantification with dPCR

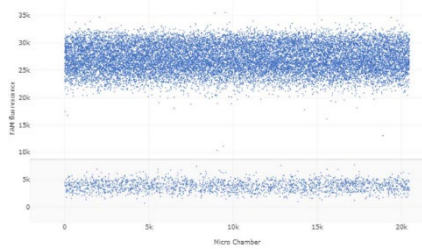
Quantitative Mycoplasma Genomic DNAs were quantified using the single copy gene in digital PCR to determine the copy number of each mycoplasma.



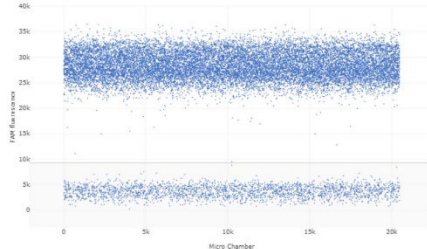
QLGD (*A. laidlawii*)



QAGD (*M. arginini*)



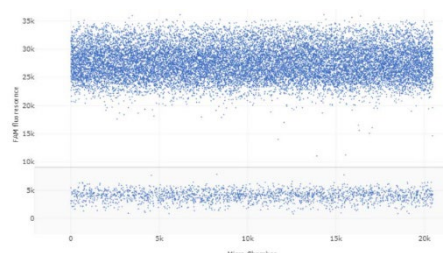
QFGD (*M. fermentans*)



QHGD (*M. hyorhinae*)



QOGD (*M. orale*)



QPGD (*M. pneumoniae*)