



## Certificate of Analysis

Verified by:  
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Quality Release date:  
Dec 4, 2017

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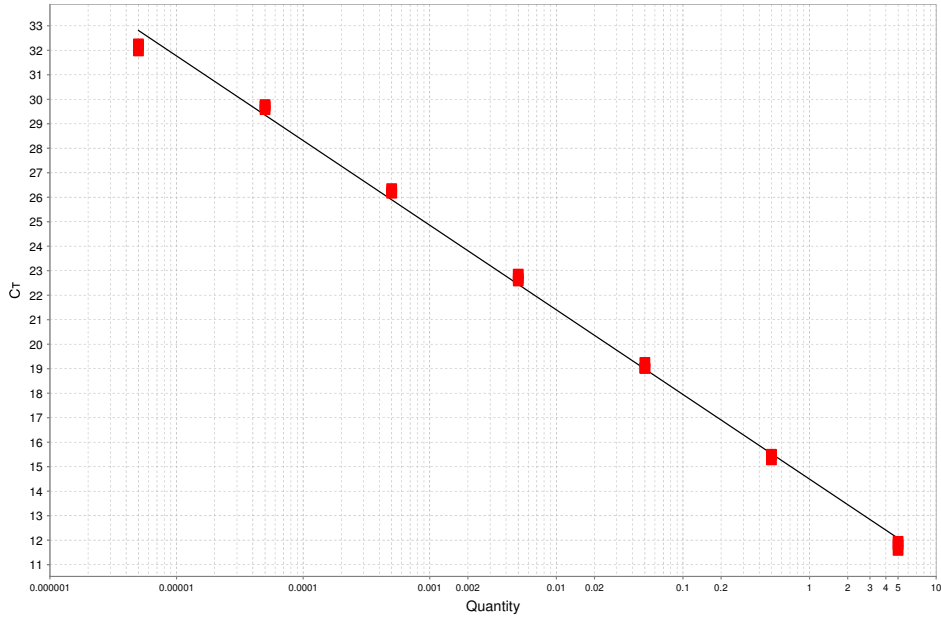
Product Name: **PCR Master Mix, DRY**  
Catalog Num: R02110  
Lot Num: 4636068  
Analysis Date: Dec 4, 2017  
Expiration Date: Dec 4, 2019  
Storage: Store at -20 °C

### Functional Testing\*

Test	Specification	Results
Lambda assay efficiency	90-110%	PASS
Lambda assay R <sup>2</sup>	>0.990	PASS

\* Functional testing—Lambda assay efficiency and R<sup>2</sup> was determined using lambda phage genomic DNA as template (5000 to 0.000005 ng per reaction) and Chai Green. Efficiency was determined through evaluation of serial dilutions of DNA template and primers that amplified a 200 bp product using cycling conditions of 3 min @ 95 °C, 40 x (15 s @ 95 °C, 60 s @ 60 °C).

Standard Curve



Lambda Assay using Chai Green

$$y = -3.456 (x) + 14.492$$

$$R^2 = 0.997$$