

New England Biolabs Product Specification

Product Name: *OneTaq® One-Step RT-PCR Kit*

Catalog #: *E5315S*

Kit Components: *OneTaq® One-Step Enzyme Mix (M1203)*
OneTaq® One-Step Reaction Mix (M1204)
Quick-Load® OneTaq® One-Step Reaction Mix (M1205)
Nuclease-free Water (B1502)

Shelf Life: *12 months*

Storage Temp: *-20°C*

Specification Version: *PS-E5315S v1.0*

Effective Date: *30 Apr 2018*

Assay Name/Specification (minimum release criteria)

Functional Testing (RT-PCR, Length) - A 50 µl reaction in *OneTaq® One-Step Reaction Mix* or *Quick-Load® OneTaq® One-Step Reaction Mix* containing 100 ng of total RNA, 1X *OneTaq® One-Step Enzyme Mix*, and 0.4 µM primers for 40 cycles of PCR amplification results in the expected 9.3 kb product.

Functional Testing (RT-PCR, Multiplexing) - A 50 µl reaction in *OneTaq® One-Step Reaction Mix* or *Quick-Load® OneTaq® One-Step Reaction Mix* containing 10 ng of total RNA, 1X *OneTaq® One-Step Enzyme Mix*, and 0.1 µM primers for 40 cycles of PCR amplification results in the expected three products.

Functional Testing (RT-PCR, Sensitivity) - A 50 µl reaction in *OneTaq® One-Step Reaction Mix* or *Quick-Load® OneTaq® One-Step Reaction Mix* containing 10 pg of total RNA, 1X *OneTaq® One-Step Enzyme Mix*, and 0.4 µM primers for 40 cycles of PCR amplification results in the expected 566 bp product.

*** Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in *OneTaq® One-Step RT-PCR Kit* and meet the designated specifications.



Date 30 Apr 2018

Derek Robinson
Director of Quality Control

