

New England Biolabs Product Specification

Product Name: OneTaq[®] RT-PCR Kit
Catalog #: E5310S
Kit Components: M-MuLV Enzyme Mix (M0342)
M-MuLV Reaction Mix (M0343)
OneTaq[®] Hot Start 2X Master Mix with Standard Buffer (M0484)
Random Primer Mix (S1330)
Oligo dd(T)₂₃ VN (S1332)
Nuclease-free Water (B1502)

Shelf Life: 18 months
Storage Temp: -20°C
Specification Version: PS-E5310S v1.0
Effective Date: 03 Apr 2018

Assay Name/Specification (minimum release criteria)

Functional Testing (RT-PCR, Length) - The performance of M-MuLV Reaction Mix with 1X M-MuLV Enzyme Mix is tested in a 20 µl RT reaction with 1 µg Human total RNA. The length of the product is verified by amplification of the p532 gene using 0.4 µl of the RT reaction and 35 cycles of PCR amplification resulting in the expected 5.5 kb product.

Functional Testing (RT-PCR, Sensitivity) - The performance of M-MuLV Reaction Mix with 1X M-MuLV Enzyme Mix is tested in a 20 µl RT reaction with 20 pg Human total RNA. The sensitivity of the product is verified by amplification of GAPDH using 0.4 µl of the RT reaction and 35 cycles of PCR amplification resulting in the expected product.

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



Date 03 Apr 2018

Derek Robinson
Director of Quality Control

