

## New England Biolabs Certificate of Analysis

**Product Name:** OneTaq® RT-PCR Kit  
**Catalog Number:** E5310S  
**Packaging Lot Number:** 10182998  
**Expiration Date:** 01/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E5310S v1.0

| OneTaq® RT-PCR Kit Component List |  |            |                      |
|-----------------------------------|--|------------|----------------------|
| NEB Part Number                   | Component Description                                | Lot Number | Individual QC Result |
| S1332AVIAL                        | Oligo d(T)23 VN                                      | 10178501   | Pass                 |
| S1330AVIAL                        | Random Primer Mix                                    | 10154729   | Pass                 |
| M0484SVIAL                        | OneTaq® Hot Start 2X Master Mix with Standard Buffer | 10170501   | Pass                 |
| M0343AVIAL                        | M-MuLV Reaction Mix                                  | 10154493   | Pass                 |
| M0342AVIAL                        | M-MuLV Enzyme Mix                                    | 10154469   | Pass                 |
| B1502AVIAL                        | Nuclease-free Water                                  | 10170341   | Pass                 |

| Assay Name/Specification  | Lot # 10182998 |
|---|----------------|
| <p><b>* Individual Product Component Note</b><br/>Standard Quality Control Tests are performed for each component included in OneTaq® RT-PCR Kit and meet the designated specifications.</p>  | <b>Pass</b>    |
| <p><b>Functional Testing (RT-PCR, Length)</b><br/>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.</p> | <b>Pass</b>    |
| <p><b>Functional Testing (RT-PCR, Sensitivity)</b><br/>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.</p>     | <b>Pass</b>    |

This product has been tested and shown to be in compliance with all specifications.

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Trinh Nguyen  
Production Scientist  
21 Jul 2022



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Michael Tonello  
Packaging Quality Control Inspector  
30 Mar 2023