

## New England Biolabs Certificate of Analysis

**Product Name:** M13K07 Helper Phage  
**Catalog Number:** N0315S  
**Concentration:** 1 x10e11 pfu/ml  
**Packaging Lot Number:** 10160291  
**Expiration Date:** 07/2024  
**Storage Temperature:** -20°C  
**Storage Conditions:** 1X PBS, 50% Glycerol  
**Specification Version:** PS-N0315S v1.0

| M13K07 Helper Phage Component List |                       |            |                      |
|------------------------------------|-----------------------|------------|----------------------|
| NEB Part Number                    | Component Description | Lot Number | Individual QC Result |
| N0315SVIAL                         | M13K07 Helper Phage   | 10148416   | Pass                 |

| Assay Name/Specification   | Lot # 10160291 |
|--|----------------|
| <b>Viable Cell Titer</b><br>Plating a 300 µl suspension of M13K07 Helper Phage for viable cells on LB agar yields a titer of <1 x 10 <sup>2</sup> cfu/ml.  | <b>Pass</b>    |
| <b>Absolute Phage Titer</b><br>Infection of a mid-log culture of E. coli ER2690 with M13K07 Helper Phage followed by plating, yields ≥ 1 x 10 <sup>11</sup> pfu/ml.  | <b>Pass</b>    |
| <b>Functional Testing (Helper Ratio)</b><br>Superinfection of an early-log culture of E. coli ER2738/pLITMUS 38 with 3 x 10 <sup>8</sup> pfu/ml M13K07, followed by incubation for 18 hours in the presence of 70 µg /ml kanamycin yields > 10-fold excess of packaged phagemid DNA over helper phage. | <b>Pass</b>    |

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

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08 Aug 2022



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08 Aug 2022