

## New England Biolabs Certificate of Analysis

**Product Name:** M13K07 Helper Phage  
**Catalog Number:** N0315S  
**Concentration:** 1 x 10<sup>11</sup> pfu/ml  
**Packaging Lot Number:** 10106711  
**Expiration Date:** 05/2023  
**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	10106712	Pass

Assay Name/Specification	Lot # 10106711
<b>Viable Cell Titer</b> 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> 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> 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Alicia Bielik*

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01 Jun 2021

*Michael Tonello*

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01 Jun 2021