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New England Biolabs Product Specification

Product Name:	M13KO7 Helper Phage
Catalog #:	N0315S
Concentration:	1x10 ¹¹ pfu/ml
Shelf Life:	24 months
Storage Temp:	-20°C
Storage Conditions:	1X PBS, 50% Glycerol
Specification Version:	PS-N0315S v1.0
Effective Date:	23 Feb 2018

Assay Name/Specification (minimum release criteria)

Absolute Phage Titer - Infection of a mid-log culture of *E. coli* ER2690 with M13KO7 Helper Phage followed by plating, yields $\geq 1 \times 10^{11}$ pfu/ml.

Functional Testing (Helper Ratio) - Superinfection of an early-log culture of *E. coli* ER2738/pLITMUS 38 with 3 x 10^8 pfu/ml M13KO7, 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.

Viable Cell Titer - Plating a 300 μ l suspension of M13KO7 Helper Phage for viable cells on LB agar yields a titer of <1 x 10² cfu/ml.

Date 23 Feb 2018

Derek Robinson Director of Quality Control



PS-N0315S v1.0 Page 1 of 1