

New England Biolabs Certificate of Analysis

Product Name: *Ph.D.[™] Peptide Display Cloning System*
Catalog Number: *E8101S*
Packaging Lot Number: *10175780*
Expiration Date: *03/2024*
Storage Temperature: *-20°C*
Specification Version: *PS-E8101S v1.0*

Ph.D. [™] Peptide Display Cloning System Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1203AVIAL	M13 Extension Primer	10141434	Pass
N3541SVIAL	M13KE gIII Cloning Vector	10169038	Pass

Assay Name/Specification	Lot # 10175780
<p>Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of M13KE gIII Cloning Vector incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>DNA Concentration (A260) The concentration of M13KE gIII Cloning Vector is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.</p>	Pass
<p>Electrophoretic Pattern (Plasmid) The banding pattern of M13KE gIII Cloning Vector on a 1.2% agarose gel is evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide.</p>	Pass
<p>A260/A280 Assay The ratio of UV absorption of M13KE gIII Cloning Vector at 260 and 280 nm is between 1.8 and 2.0.</p>	Pass
<p>Functional Testing (PCR) The performance of the Ph.D.[™] Peptide Display Cloning System is tested in a 25 µl PCR reaction using 1 ng M13KE gIII Cloning Vector as the substrate, 0.0125 nmol M13KE Extension Primer and 0.0125 nmol reverse primer (5-CCC ATG TAC CGT AAC ACT GAGTTTC-3) for 25 cycles of PCR resulting in the expected 194 bp product as determined by agarose gel electrophoresis.</p>	Pass

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 for additional information.

Beth M. Paschal

Beth Paschal
Production Scientist
28 Feb 2022

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
27 Dec 2022