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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Ph.D.™ Peptide Display Cloning System
Catalog Number:	E8101S
Packaging Lot Number:	10098564
Expiration Date:	02/2022
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	10098022	Pass
N3541SVIAL	M13KE gIII Cloning Vector	10065568	Pass

Assay Name/Specification	Lot # 10098564
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.	Pass
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.	Pass
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.	Pass
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.	Pass
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.	Pass





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

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Alicia Bielik Production Scientist 04 Mar 2021

Michae 11.

Michael Tonello Packaging Quality Control Inspector 04 Mar 2021

