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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

Ph.D.™-7 Phage Display Peptide Library Kit
E8100S
10092467
12/2022
-20°C
PS-E8100S v1.0

Ph.D.™-7 Phage Display Peptide Library Kit Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S1259AVIAL	-96 glll Sequencing Primer (20-mer)	10066252	Pass	
S1258AVIAL	-28 glll Sequencing Primer (22-mer)	10066251	Pass	
N7024AVIAL	Biotin	10066253	Pass	
N7023AVIAL	Streptavidin, lyophilized	10081107	Pass	
E8102AVIAL	Ph.D.™-7 Phage Display Peptide Library	10092468	Pass	
E4104SVIAL	E.coli K12 ER2738	10055843	Pass	

Assay Name/Specification	Lot # 10092467
Functional Testing (Panning) A 100-fold representation of the Ph.D. TM -7 Phage Display Peptide Library containing approximately 1011 pfu is diluted in 200 µl TBS and panned against 300 ng β -endorphin monoclonal antibody. The bound phage is affinity captured using magnetic beads and eluted with 1 ml of 0.2M Glycine-HCl, pH 2.2. After three rounds of selection, ≥75% of sequences contain a motif related to the known epitope for the antibody.	Pass
Phage Contamination (Environmental) A 1:100 dilution of an overnight culture of E. coli ER2738 was made in 20 ml LB, to which 10 ⁵ pfu of Ph.D. [™] -7 Phage Display Peptide Library was added. The flask was incubated at 37°C on a rotating shaker for 5 hours. A 1 ml volume of culture was removed and centrifuged. Five microliters (5 μl) of phage-containing supernatant was used for three successive rounds of amplification. The final culture supernatant was plated on three LB/IPTG/Xgal plates and then titered. Fewer than 5% clear or white plaques were observed in a minimum of 100 total plaques counted on each plate.	Pass
Sequence Verification (DNA) The Ph.D.™-7 Phage Display Peptide Library was sequenced using 5'-CCCATGTACCGTAACACTGAGTTTC-3' as a primer to confirm the correct form of the	Pass





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Assay Name/Specification	Lot # 10092467
cloned insert on the displayed peptide, X7-GGG.	
Absolute Phage Titer	Pass
Infection of a mid-log culture of E. coli ER2738 with Ph.D.™-7 Phage Display Peptide	
Library followed by plating, yields $\geq 1 \times 101^3$ pfu/ml.	

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.

Alicia Bielik Production Scientist 14 Dec 2020

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Michael Tonello Packaging Quality Control Inspector 14 Dec 2020

