

New England Biolabs Certificate of Analysis

Product Name: *Ph.D.[™]-C7C Phage Display Peptide Library Kit*
 Catalog Number: *E8120S*
 Packaging Lot Number: *10121425*
 Expiration Date: *07/2023*
 Storage Temperature: *-20°C*
 Specification Version: *PS-E8120S v2.0*

Ph.D. [™] -C7C Phage Display Peptide Library Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1259AVIAL	-96 gIII Sequencing Primer (20-mer)	10122169	Pass
S1258AVIAL	-28 gIII Sequencing Primer (22-mer)	10122170	Pass
N7024AVIAL	Biotin	10111664	Pass
N7023AVIAL	Streptavidin, lyophilized	10115978	Pass
E8121AVIAL	Ph.D. [™] -C7C Phage Display Peptide Library	10109413	Pass
E4104SVIAL	E.coli K12 ER2738	10055843	Pass

Assay Name/Specification	Lot # 10121425
<p>Functional Testing (Panning) A 100-fold representation of the Ph.D.[™]-C7C Phage Display Peptide Library containing approximately 10¹¹ pfu is diluted in 200 µl TBS and panned against 300 ng of anti-FLAG[®] 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.</p>	Pass
<p>Sequence Verification (DNA) The Ph.D.[™]-C7C Phage Display Peptide Library was sequenced using 5'-CCCATGTACCGTAACTGAGTTTC-3' as a primer to confirm the correct form of the cloned insert on the displayed peptide, ACX7C-GGG.</p>	Pass
<p>Absolute Phage Titer Infection of a mid-log culture of E. coli ER2738 with Ph.D.[™]-C7C Phage Display Peptide Library followed by plating, yields ≥ 1 x 10¹³ pfu/ml.</p>	Pass
<p>Phage Contamination (Environmental) A 1:100 dilution of an overnight culture of E. coli ER2738 was made in 20 ml LB, to which 10³ pfu of Ph.D.[™]-C7C Phage Display Peptide Library was added. The flask was</p>	Pass

Assay Name/Specification	Lot # 10121425
<p>incubated at 37°C on a rotating shaker for 5 hours. A 1 ml volume of culture was removed and centrifuged. A volume of culture supernatant equivalent to the initial PFU input was added to a second, 20 ml culture like the first. The final culture supernatant was plated on three LB/IPTG/Xgal plates and then titered. Fewer than 20% clear or white plaques were observed in a minimum of 100 total plaques counted on each plate.</p>	

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
29 Sep 2021



Josh Hersey
Packaging Quality Control Inspector
29 Sep 2021