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## New England Biolabs Certificate of Analysis

Product Name: Ph.D.™-12 Phage Display Peptide Library Kit

Catalog Number: E8110S
Packaging Lot Number: 10131200
Expiration Date: 09/2023
Storage Temperature: -20°C

Specification Version: PS-E8110S v2.0

Ph.D.™-12 Phage Display Peptide Library Kit Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
S1259AVIAL	-96 glll Sequencing Primer (20-mer)	10130622	Pass	
S1258AVIAL	-28 glll Sequencing Primer (22-mer)	10126854	Pass	
N7024AVIAL	Biotin	10111664	Pass	
N7023AVIAL	Streptavidin, lyophilized	10115978	Pass	
E8111AVIAL	Ph.D.™-12 Phage Display Peptide Library	10111203	Pass	
E4104SVIAL	E.coli K12 ER2738	10055843	Pass	

Assay Name/Specification	Lot # 10131200
Absolute Phage Titer Infection of a mid-log culture of E. coli ER2738 with Ph.D.™-12 Phage Display Peptide Library followed by plating, yields ≥ 1 x 101³ pfu/ml.	Pass
Sequence Verification (DNA) The Ph.D.™-12 Phage Display Peptide Library was sequenced using 5'-CCCATGTACCGTAACACTGAGTTTC-3' as a primer to confirm the correct form of the cloned insert on the displayed peptide, X12-GGG.	Pass
Functional Testing (Panning) A 100-fold representation of the Ph.D.™-12 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 10³ pfu of Ph.D.™-12 Phage Display Peptide Library was added. The flask was	Pass



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

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Production Scient

Production Scientist

02 Dec 2021

each plate.

Michael Tonello

Packaging Quality Control Inspector

02 Dec 2021