

## New England Biolabs Certificate of Analysis

Product Name: *EnGen® sgRNA Synthesis Kit, S. pyogenes*  
 Catalog Number: *E3322S*  
 Lot Number: *10012893*  
 Expiration Date: *12/2019*  
 Storage Temperature: *-20°C*  
 Specification Version: *PS-E3322S v1.0*

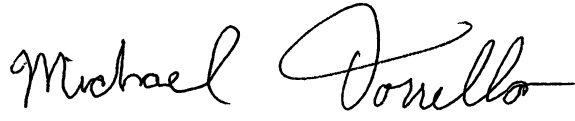
EnGen® sgRNA Synthesis Kit, S. pyogenes Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S3321AVIAL	sgRNA Control Oligo, S. py	0011709	Pass
N3320AVIAL	EnGen® 2X sgRNA Reaction Mix, S. pyogenes	10013392	Pass
M3322AVIAL	EnGen® sgRNA Enzyme Mix	10014215	Pass
M0303AAVIAL	DNase I (RNase-free)	10012626	Pass

Assay Name/Specification	Lot # 10012893
<b>Functional Testing (RNA Synthesis, Yield)</b> A 20 µl reaction in the presence of 1X EnGen® sgRNA Reaction Mix containing 0.25 µM EnGen® sgRNA Control Oligo with 2 µl of the EnGen® sgRNA Enzyme Mix incubated for 30 minutes at 37°C results in a minimum of 15 µg of sgRNA as determined by OD 260 and gel electrophoresis.	Pass
<b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in EnGen® sgRNA Synthesis Kit, S. pyogenes and meet the designated specifications.	Pass

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



Dongxian Yue  
Production Scientist  
28 Jun 2018



Michael Tonello  
Packaging Quality Control Inspector  
28 Jun 2018