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## Simply Seamless Certificate of Analysis

Product Name:

Simply Seamless (+) Control DNA

Catalog Number:

S95

Packaging Lot Number:

10775

Expiration Date:

Storage Temperature:

02/2022 -80°C

Specification Version:

SV-1077 v1.0

Simply Seamless (+) Control DNA Component List				
Part Number	Component Description	Lot Number	Individual QC Result	
S95	Simply Seamless Positive Control DNA Fragments	10775	Pass	

Assay Name/Specification	Lot # 10775
Functional Testing	
1 $\mu$ I of 10X Reaction Buffer and 1 $\mu$ I of Simply Seamless Enzyme Mix was incubated with (+) control DNA (consists of 2 DNA fragments, 25 ng each, an ampicillin resistance gene (1160 bp) and the pMB1 ori (749 bp) with 25 bp overlap on terminal ends) in a final volume of 10 $\mu$ I at 37°C for 30 minutes. 5 $\mu$ I of the assembly reaction was resolved on a 1% agarose gel and band intensities were quantitated using ImageJ software. The assembled fragment represents more than 45% of the total DNA used in the reaction. Simply Seamless DH5-alpha Competent E. coli cells were transformed with 3 $\mu$ I of the assembled product. Cells were spread onto LB plates and incubated overnight at 37°C after transformation. Greater than 150 colonies were observed.	
* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Simply Seamless DNA Assembly and Cloning Kit and meet the designated specifications.	Pass

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

Brian C. Jester

**Head of Quality Control** 

13 July 2021