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Simply Seamless
Certificate of Analysis

Product Name: *Simply Seamless DNA Assembly and Cloning Kit*
Catalog Number: *S93-01*
Packaging Lot Number: *1078*
Expiration Date: *02/2022*
Storage Temperature: *-80°C*
Specification Version: *SV-1077 v1.0*

Simply Seamless DNA Assembly and Cloning Kit Component List			
Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
S95	Simply Seamless Positive Control	10775	**Pass**
S92	Simply Seamless Enzyme Mix	10776	**Pass**
S94	Simply Seamless 10X Reaction Buffer	10777	**Pass**
S96	Simply Seamless Competent DH5alpha Cells	10778	**Pass**

Assay Name/Specification	**Lot # 1078**
Functional Testing 1 µl of 10X Reaction Buffer and 1 µl of Simply Seamless Enzyme Mix was incubated with 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 µl at 37°C for 30 minutes. 5 µl 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 µl of the assembled product. Cells were spread onto LB plates and incubated overnight at 37°C after transformation. Greater than 150 colonies were observed.	**Pass**
*** 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