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New England Biolabs Certificate of Analysis

Product Name: SexAI

Catalog Number: R0605S

Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pBC4 DNA (dcm-) in 1 hour at 37°C in a total reaction volume of

50 μl.

Packaging Lot Number: 10195514
Expiration Date: 06/2025
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0605S/L v1.0

SexAl Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0605SVIAL	SexAl	10195513	Pass
B6004SVIAL	rCutSmart™ Buffer	10193042	Pass

Assay Name/Specification	Lot # 10195514
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 15 units of SexAl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of pBC4 dcm- DNA with SexAI, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with SexAI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBC4 dcm- DNA and a minimum of 15 Units of SexAl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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.



R0605S / Lot: 10195514

Page 1 of 2

YunJie Sun Production Scientist 14 Jun 2023

NEW ENGLAND

Michael Tonello

Packaging Quality Control Inspector 20 Jul 2023