

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: I-Scel
Catalog Number: R0694L
Concentration: 5,000 U/ml

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

of pGPS2 Notl-linearized Control Plasmid in 1 hour at 37°C in a

total reaction volume of 50 μl.

Lot Number: 10022297
Expiration Date: 09/2020
Storage Temperature: -80°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 µg/ml BSA

Specification Version: PS-R0694S/L v1.0

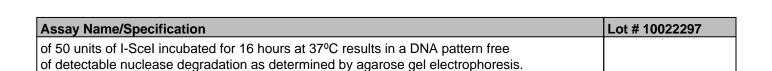
| I-Scel Component List | | | | |
|------------------------|---------------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0694LVIAL | I-Scel | 10022298 | Pass | |
| N0420SVIAL | pGPS2 NotI-linearized Control Plasmid | 10022455 | Pass | |
| B7204SVIAL | CutSmart® Buffer | 10018442 | Pass | |

| Assay Name/Specification | Lot # 10022297 |
|---|----------------|
| Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 15 units of I-Scel incubated for 4 hours at 37°C results in <20% | Pass |
| conversion to the nicked form as determined by agarose gel electrophoresis. | |
| 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 50 units of I-Scel 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 pGPS2-NotI DNA with I-SceI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with I-SceI. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pGPS2-NotI DNA and a minimum | Pass |



R0694L / Lot: 10022297

Page 1 of 2



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

Jianying Luo
Production Scientist

14 Sep 2018

Michael Tonello

Packaging Quality Control Inspector

25 Sep 2018

