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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: | NEB® Golden Gate Enzyme Kit (Bsal-HF®v2) |
|------------------------|--|
| Catalog Number: | E1601L |
| Lot Number: | 10034351 |
| Expiration Date: | 10/2020 |
| Storage Temperature: | -20°C |
| Specification Version: | PS-E1601S/L v1.0 |

| NEB® Golden Gate Enzyme Kit (Bsal-HF®v2) Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N2615AAVIAL | pGGA Destination Plasmid | 10024038 | Pass |
| M2616AAVIAL | NEB® Golden Gate Enzyme Mix (Bsal-HF®v2) | 10024468 | Pass |
| B0202AVIAL | T4 DNA Ligase Reaction Buffer | 10023776 | Pass |

| Assay Name/Specification | Lot # 10034351 |
|---|----------------|
| Functional Testing (Golden Gate Assembly) A 20 µl reaction containing 2 µl of T4 DNA Ligase Reaction Buffer, 75 ng pGGA (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene encoding laclZ, and 1 µl NEB® Golden Gate Enzyme Mix is incubated for 30 cycles of 37°C for 1 minute, 16°C for 1 minute, and then at 60°C for 5 minutes to linearize any remaining plasmid. Successfully assembled fragments result in laclZ gene in the pGGA vector and yield blue colonies on an IPTG/Xgal/Chloramphenicol plate. Transformation of T7 Express Competent E. coli (High Efficiency, NEB #C2566) with 2 µl of the assembly reaction yields >250 colonies and >80% blue colonies when 5% of the outgrowth is spread on an IPTG/Xgal/Chloramphenicol plate and incubated overnight at 37°C. | Pass |
| * Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEB® Golden Gate Assembly Kit (Bsal-HFv2) and meet the designated specifications. | Pass |

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





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Cathy Shea Production Scientist 16 Oct 2018

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Michael Tonello Packaging Quality Control Inspector 10 Jan 2019

