Product Specifications 95190-010 Rev 01

Product Description:
The repliQa HiFi Assembly Mix simplifies the construction of recombinant DNA through the simultaneous and seamless assembly of multiple DNA fragments possessing terminal regions of sequence overlap in a single, isothermal reaction. Similar in principle to the Gibson Assembly® Method, the high efficiency repliQa HiFi Assembly Mix is ideal for a range of genetic engineering applications including routine molecular cloning, site-directed mutagenesis, assembly of large constructs for synthetic biology applications, and the construction of diverse sequence libraries for directed evolution studies. The concentrated, two-component format allows flexibility in design of assembly reactions and compatibility with less concentrated DNA samples. The repliQa Mix has been optimized for use with a total input quantity of DNA fragments in the range of 0.03 to 0.5 pmols. The assembly of up to six DNA fragments is recommended, though the repliQa Mix has been successfully used for more complex assemblies.

Component Part Numbers:
84614 repliQa HiFi Assembly Enzyme Mix, 0.02mL
84615 repliQa 10X Assembly Reaction Buffer, 0.01mL
84618 repliQa DpnI Restriction Enzyme, 0.05mL

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<th>Assay</th>
<th>DNA Assembly Quantification Assay</th>
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<tr>
<td>Specification</td>
<td>≥15%</td>
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Quality Control Analysis and Specifications:
The repliQa HiFi Assembly Mix is functionally tested for assembly of three 1-kb PCR fragments and quantitation of the 3 kb product.

Enzyme components were tested prior to assembly and found free of contaminating endonucleases and exonucleases. Enzyme purity was >95% as determined by SDS-PAGE and negligible E.coli genomic DNA contamination was confirmed by qPCR.

Limitations of Use
Quantabio and Ultraplex are registered trademarks of QIAGEN Beverly, Inc. Quanta Biosciences, qScript, Geltrack, ToughMix, PerfeCta, and FastMix are registered trademarks of Quanta BioSciences Inc. Extracta, AccuStart, AccuMelt, and Accuvue are trademarks of Quanta BioSciences Inc. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and/or its subsidiaries. Please contact QIAGEN Beverly for more information.

This product was developed, manufactured, and sold for in vitro use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

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