

**Product:** Lotus DNA Library Prep Kit, 96 rxn

**Product number:** 10001074

**Batch number:** 0000442836

**Expiration date:** IDT guarantees the product for 6 months after receipt.

Component	Component part number	Component batch number
Lotus Enzymatic Prep Buffer, 96 rxn	10000990	04004010
Lotus Enzymatic Prep Reagent, 96 rxn	10000991	04004011
Lotus Enzymatic Prep Enzyme, 96 rxn	10000992	04004012
Lotus Ligation Buffer, 96 rxn	10000993	04004013
Lotus Ligation Enzyme, 96 rxn	10000994	04004014
Lotus PCR Reagent, 96 rxn	10000995	04004015
Lotus PCR Buffer, 96 rxn	10000996	04004016
Lotus PCR Enzyme, 96 rxn	10000997	04004017
Lotus PCR Primers, 96 rxn	10000998	04004018
Lotus Elution Buffer	10000989	04004020

Quality Control Parameters		
Parameter	Specification	Result
Fragmentation Time	Observed fragmentation time for this lot with NA12878 Coriell gDNA: 10 minutes for 200 bp for 100 ng inputs.* 7 minutes for 350 bp for 100 ng inputs.*	Pass
Library Yield Plus PCR	Each set of reagents is functionally tested and compared to established performance metrics. Libraries are prepared using high quality <i>E.coli</i> gDNA fragmented to either 200 bp or 350 bp at input amounts of 1 ng, 10 ng, 100 ng, and 250 ng.  Libraries are sequenced on the MiSeq. Metrics evaluated include library yields, mean insert size, percent reads aligned, percent duplicates, and percent adapter dimers.  NTCs are verified on the Agilent 2100 BioAnalyzer and the MiSeq.	Pass

\* Fragmentation times were performed using high quality gDNA and verified on both the Agilent 2100 BioAnalyzer and the Illumina MiSeq.

**Storage:** Store Lotus DNA Library Prep Kit in a sealed container at –20°C. Store Lotus Elution Buffer in a sealed container in ambient conditions.

**Verified by:** Wade Beagle

**Quality release date:** 2019-APR-22

IDT verifies that the information contained herein is true and correct to the best of our knowledge. This document was produced electronically and is valid without signature.

**For Research Use Only.**

Lotus and IDT are trademarks of Integrated DNA Technologies, Inc.