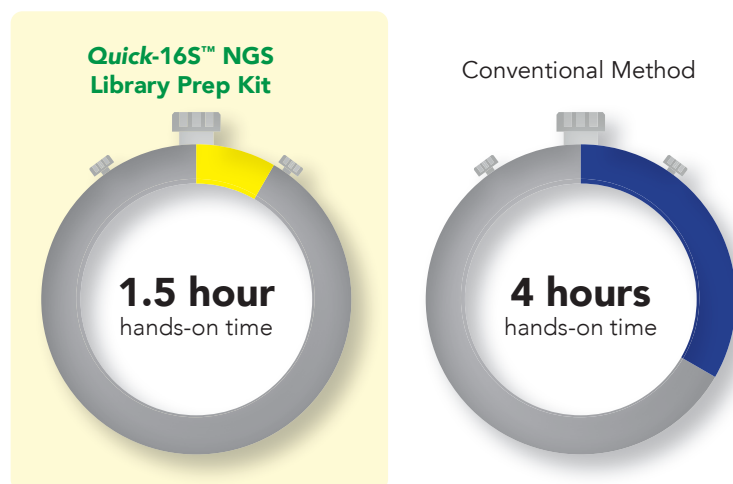


# Redefining 16S Library Preparation

## Quick-16S™ NGS Library Prep Kit

- **Fast & Simple:** Only 1.5 hours of hands-on time. No TapeStation® analyses or AMPure® clean-ups.
- **Accurate:** Real-time PCR limits PCR chimera formation by up to 10 times.
- **Increased Coverage:** Novel primers increase phylogenetic coverage of bacteria and archaea, enabling species-level resolution for human microbiome profiling.

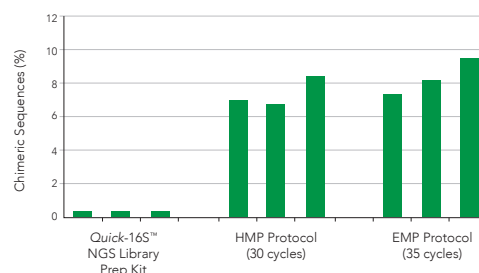
### Fastest 16S Library Prep



The Quick-16S™ NGS Library Prep Kit is >2.5 times faster than the conventional 16S library prep method. The Quick-16S™ Kit simplifies the 16S library prep workflow by quantifying libraries using qPCR, instead of TapeStation® analyses, and by using a single-tube library cleanup.

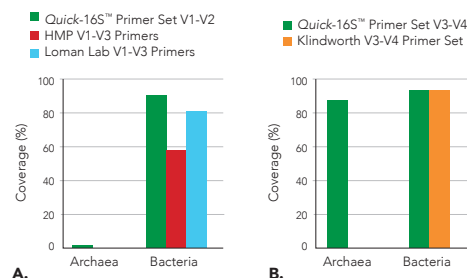
The Quick-16S™ NGS Library Prep Kit and included Quick-16S™ Primer Sets enable users to convert up to 96 DNA samples to a single, ready-to-sequence 16S library without the need for additional reagents. A streamlined protocol simplifies primer management and eliminates numerous cleanups and quantifications. The best phylogenetic coverage is made possible by innovative new primers that allow users to choose which region of the 16S genome to target.

### Minimize PCR Chimera Formation



The Quick-16S™ NGS Library Prep Kit minimizes PCR chimera formation compared to two common protocols: Human Microbiome Project (HMP) and Earth Microbiome Project (EMP). Equivalent amounts of the same fecal DNA sample were used as input. Chimeric sequences were predicted with Uchime (<https://www.drive5.com/uchime>).

### Best Phylogenetic Coverage





**A.** The Quick-16S™ Primer Set V1-V2 includes coverage of common human-associated microbes, including *Bifidobacterium*, *Propionibacterium*, and *Chlamydia*, which are missed in common V1-V2 or V1-V3 primers.

**B.** The Quick-16S™ Primer Set V3-V4 provides up to 87% coverage for archaea, organisms commonly found in the human gut. However, the common V3-V4 primers provide 0% coverage for archaea.

Product	Cat. No.	Size
Quick-16S™ NGS Library Prep Kit	D6400	96 rxns

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