

## ACCEL-NGS® 1S PLUS DNA LIBRARY KIT

The Accel-NGS 1S Plus DNA Library Kit is designed for Illumina® platforms. Utilizing Swift Biosciences' innovative technology, this kit allows DNA library construction from single-stranded DNA (ssDNA), as well as double-stranded DNA (dsDNA), which is nicked, damaged, or contains short fragments.



### Features

- Does not require intact dsDNA
- Highly efficient adapter ligation
- Inputs as low as 10 pg
- Simple, 2-hour workflow
- High sequence quality and even coverage

### Applications

- ssDNA samples
- Damaged samples, including nicked DNA
- Metagenomics
- Viromics
- Difficult-to-extract organisms
- Heat-denatured pathogenic samples

### Simple Workflow

#### Adaptase™

17 minutes

#### Extension

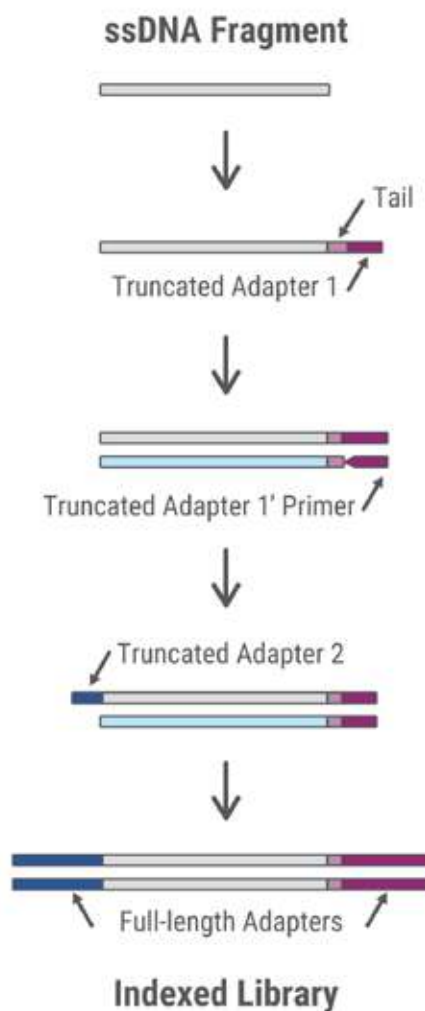
8 minutes

#### Ligation

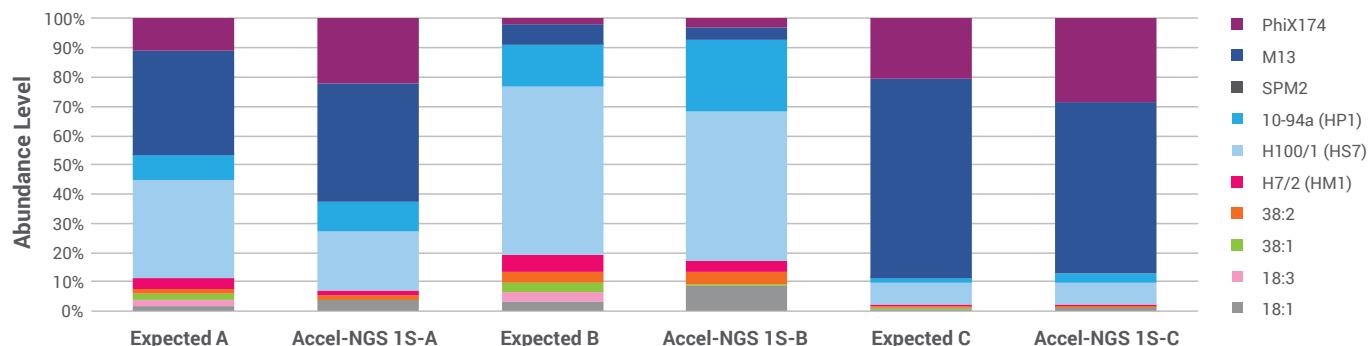
15 minutes

#### Indexing PCR

Time varies



## Accurate Detection of Both ssDNA and dsDNA Phage



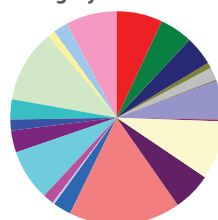
The Accel-NGS 1S Plus DNA Library Kit was used to prepare and sequence three artificial viromes containing different proportions of the ssDNA phage PhiX174 and M13 mixed with dsDNA phage. In all cases, the proportions were preserved when sequenced with the Accel-NGS 1S Plus Kit without any prior whole genome amplification for detection of ssDNA phage.

## DNA Extraction and Sequencing of a Hard-to-Extract Microbe

Extraction Method	Qubit® (ng/μl)	NanoDrop® (ng/μl)
Bead Beating	3.1	5.5
NaOH Boiling	< 2.0	107.3

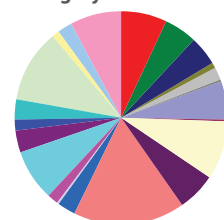
<i>Facklamia</i> sp. HGF4	Bead Beating	NaOH Boiling
Fold-coverage	65.5x	52.9x
Number of Contigs	42	46
Total Consensus	1,896,447	1,892,667
Largest Contig	190,702	190,844
N <sub>50</sub> Contig Size	85,449	86,622

**Bead Beating**  
Sub-system  
Category Distribution



Sub-system Coverage  
51% In sub-system  
52% Not in sub-system

**NaOH Boiling**  
Sub-system  
Category Distribution



Sub-system Coverage  
51% In sub-system  
52% Not in sub-system

Colors in pie charts represent different *Facklamia* sp. sub-system categories as annotated by the RAST server.

- DNA extraction by NaOH boiling produced higher DNA yields from *Facklamia* sp. than bead beating, and in less time.
- Sequencing of the NaOH extracted DNA produced a high quality *de novo* assembled genome sequence that was indistinguishable from that produced from bead beating extracted DNA.

Référence	Désignation	Conditionnement
<b>Kits de préparation de banques Accel-NGS 1S</b>		
SW10024	Accel-NGS 1S Plus DNA Library Kit for Illumina (inclut #90296)	24 rxns
SW10096	Accel-NGS 1S Plus DNA Library Kit for Illumina (inclut #90296)	96 rxns
SW100384	Accel-NGS 1S Plus DNA Library Kit for Illumina (inclut #90296)	4 x 96 rxns
SW102304	Accel-NGS 1S Plus DNA Library Kit for Illumina (inclut #90296)	24 x 96 rxns
<b>Index pour les kits de préparation de banques Accel-NGS 1S</b>		
SW16024	1S Plus Indexing Kit for Illumina - (12 indices, 2 reaction each, Set A)	24 rxns
SW18096	1S Plus Dual Indexing Kit for Illumina ( 96 unique combinations)	96 rxns
SW19096	Accel-NGS 1S Unique Dual Indexing Kit (24 indices, 96 rxns)	96 rxns
SWX9096-PLATE	Swift Unique Dual Indexing Primer Plate, 96-plex, 96 reactions (Single Use)	96 rxns
SW190384	Accel-NGS 1S Unique Dual Indexing Kit (96 indices, 384 rxns)	384 rxns

**Nous contacter**



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