Volta Labs

ROCHE'S KAPA EVOPLUS BOOST KIT (RUO)

Key Benefits

Consistent and tunable fragmentation
Reproducible insert sizes across DNA inputs and GC content enable consistent, high-quality libraries.

Improved sequencing efficiency elivers highly uniform coverage
Reduced sequencing artifacts and low duplication rates (<10%) maximize usable sequencing reads.

Streamlined, walk-away automation on Callisto
Combined fragmentation and A-tailing ReadyMix chemistry simplifies setup and enables robust, automated library preparation with minimal hands-on time.

Roche

Highly Reproducible Illumina Libraries

Volta's App on Callisto for Roche's KAPA EvoPlus Boost Kit (RUO)* enables an automated and streamlined workflow for converting DNA inputs of varying quantities into Illumina™-compatible, sequencing-ready libraries. The workflow integrates key library preparation steps—including enzymatic fragmentation & A-tailing, adapter ligation, and bead-based size selection—within a single automated process.

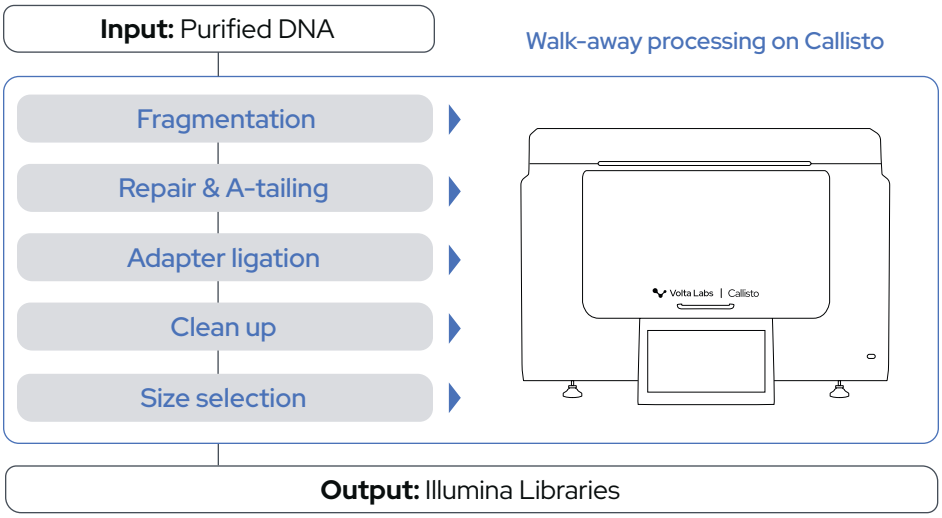
Built on the proven performance of KAPA library preparation chemistry, the workflow delivers reduced sequencing artifacts and robustness to common inhibitors. Combined fragmentation and A-tailing in ReadyMix formulations simplify workflow setup and enable robust library preparation.

The App supports a range of sequencing applications, including whole-genome sequencing (WGS) and whole-exome sequencing (WES) and/or targeted sequencing.

App specifications

Input:	100-500 ng DNA
Output:	Sequencing ready libraries
Hands-on time:	Less than 30 minutes
Walk-away time:	3 hours
Throughput:	Flexible, 4 to 24 rxns in a single run
Chemistry:	Roche KAPA EvoPlus Boost (PCR-free) Kit (RUO)*

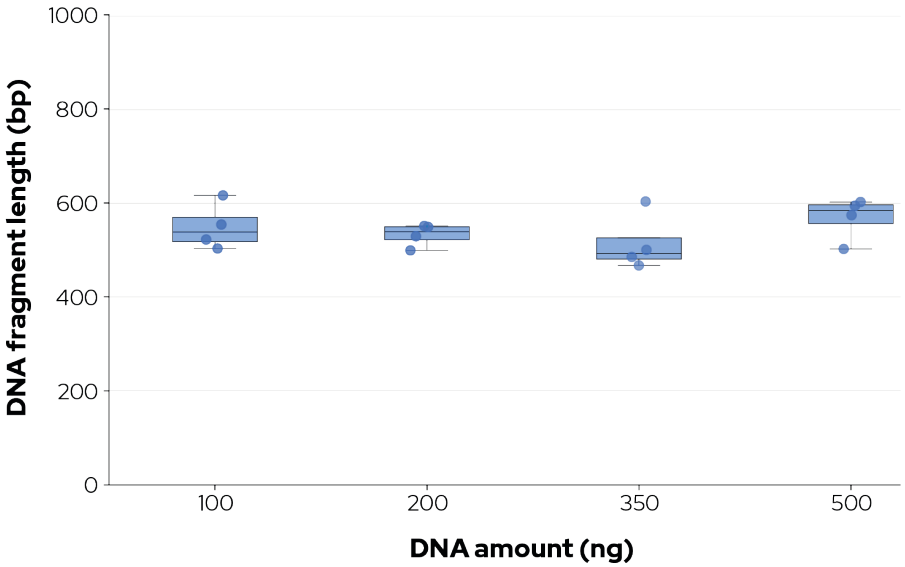
Workflow steps



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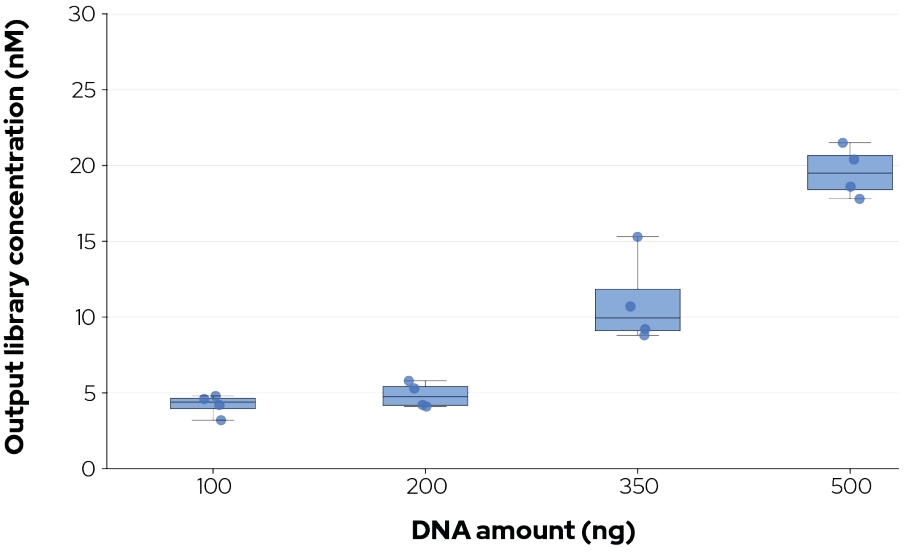
Highly reproducible output library size across DNA inputs

The library prep App consistently generates libraries with a mode fragment size of ~540 bp across DNA inputs ranging from 100 ng to 500 ng, producing libraries suitable for whole-genome sequencing.



Robust library yield across a wide DNA input range

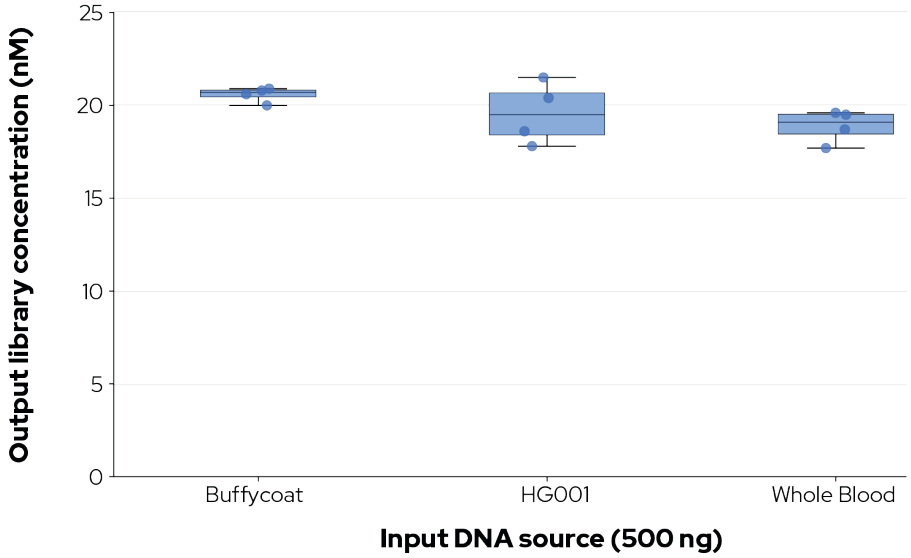
Library concentrations exceeding 2 nM were obtained across DNA inputs from 100 ng to 500 ng, demonstrating robust performance across a wide range of sample inputs. DNA concentration was quantified using Qubit and TapeStation.



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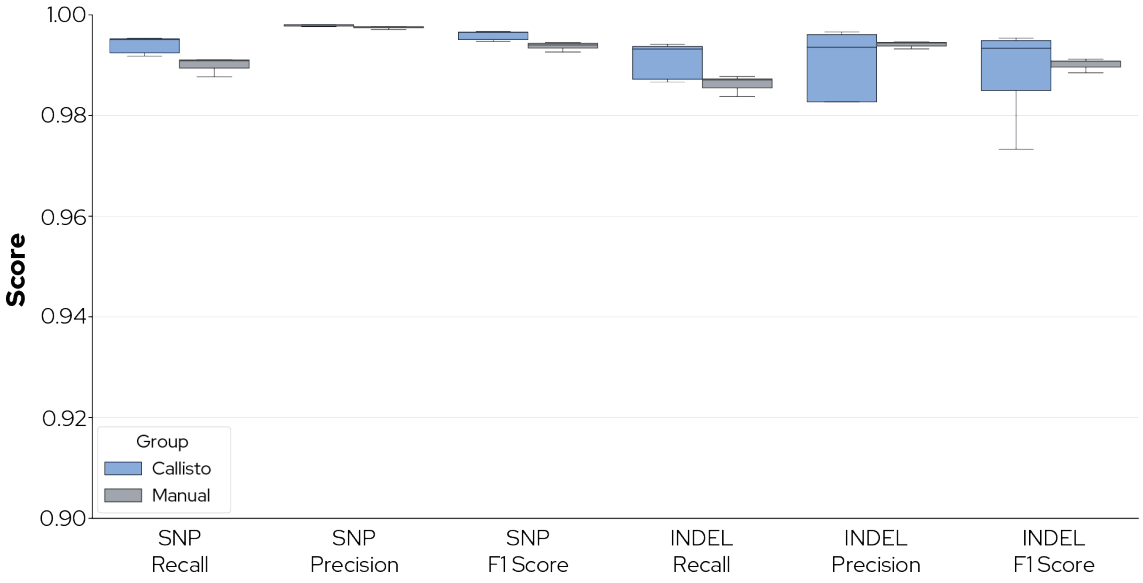
Consistent performance across DNA sources

The App supports diverse DNA sources, including buffy coat, human reference DNA (HG001), and DNA extracted from whole blood (WB), producing consistently high library concentrations. DNA concentration was quantified using Qubit and TapeStation.



High accuracy variant calling

Automated library preparation on Callisto delivers variant calling accuracy comparable to or better than manual workflows. Libraries prepared on Callisto (n=7 technical replicates) demonstrated higher SNP recall, precision, and F1 scores compared to manually prepared libraries (n=5), with comparable performance for indel detection. Libraries were generated using HG001 DNA, sequenced on the Illumina NovaSeq X, and benchmarked against the NIST reference set (HG001_GRCh38_1_22_v4.2.1_benchmark.bed) using hap.py.



Ordering information

Part number	Product
LP0008	Callisto Kit for KAPA EvoPlus Boost DNA Library Prep - 48 rxns
09420304001	KAPA EvoPlus V2 Kit, PCR-free (96 rxn)
08861919702	KAPA UDI Adapter Kit (15 μM)
08963851001	KAPA HyperPure Beads (60 mL)
07960140001	Lib Quant Kit (Illumina/Uni) 500 rxn (edited)

Please contact sales@voltalabs.co to purchase, or scan the QR code to learn more

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